

Mon Jan 6 18:51:29 2003

us-10-006-366-3.rnmp

Page 1

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 13:13:06 ; Search time 8801 Seconds
(without alignments)
19060.411 Million cell updates/sec

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Gapop 10.0 , Gapext 1.0

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Minimum DB seq length: 0
Maximum DB seq length: 99

Post-processing: Minimum Match 0%
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Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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4	80.4	1.2	98	US-09-764-860-819	Sequence 819, App
5	80.4	1.2	98	US-10-074-095-818	Sequence 818, App
6	80.4	1.2	98	US-10-074-095-819	Sequence 819, App
7	80.4	1.2	98	US-10-212-872-818	Sequence 818, App
8	80.4	1.2	98	US-10-212-872-819	Sequence 819, App
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ALIGNMENTS

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; APPLICANT: Human Genome Sciences, Inc., et al.
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; FILE REFERENCE: PC008PCT
; CURRENT APPLICATION NUMBER: PCT/US01/01333
; CURRENT FILING DATE: 2001-01-14
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1198
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 818
; LENGTH: 98
; TYPE: DNA
; ORGANISM: Homo sapiens
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; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC008PCT
; CURRENT APPLICATION NUMBER: PCT/US01/01333
; CURRENT FILING DATE: 2001-01-14
; Prior application data removed - consult PALM or file wrapper
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; LENGTH: 98
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; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC008
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; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 1198
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US-09-764-860-818

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Page 3

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 APPLICANT: Rosen et al.
 TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
 FILE REFERENCE: PC008C1
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 PRIOR APPLICATION NUMBER: 60/220,964
 PRIOR FILING DATE: 2000-07-26
 PRIOR APPLICATION NUMBER: 60/241,809
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 PRIOR FILING DATE: 2000-09-29
 PRIOR APPLICATION NUMBER: 60/241,785
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/244,617
 PRIOR FILING DATE: 2000-11-01

PRIOR APPLICATION NUMBER: 60/225,268
PRIOR FILING DATE: 2000-08-14
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PRIOR FILING DATE: 2000-12-08
PRIOR APPLICATION NUMBER: 60/251,868
PRIOR FILING DATE: 2000-12-08
PRIOR APPLICATION NUMBER: 60/229,344
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PRIOR APPLICATION NUMBER: 60/229,509
PRIOR FILING DATE: 2000-09-05
PRIOR APPLICATION NUMBER: 60/236,367
PRIOR FILING DATE: 2000-09-29
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PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: 60/237,038
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: 60/236,370
PRIOR FILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: 60/236,802
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: 60/237,037
PRIOR FILING DATE: 2000-10-02
PRIOR APPLICATION NUMBER: 60/237,040
PRIOR FILING DATE: 2000-10-02
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PRIOR FILING DATE: 2000-11-17
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PRIOR FILING DATE: 2000-08-14
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PRIOR APPLICATION NUMBER: 60/215,135
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: 60/225,266
PRIOR FILING DATE: 2000-08-14
PRIOR APPLICATION NUMBER: 60/249,218

PRIOR FILING DATE: 2000-11-17
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PRIOR APPLICATION NUMBER: 60/232,080
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/231,414
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/231,244
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/233,064
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/233,063
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/232,397
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/232,399
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/232,401
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/241,808
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/241,826
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/241,786
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/241,221
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/246,475
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 60/231,243
PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/233,065

Query Match 1.2%; Score 80.4; DB 39; Length 98;
Best Local Similarity 88.8%; Pred. No. 2;
Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 4090 GTAGACAGGGTTTGGCCGTGTGGCCGGGCTGTCTGGAACCTTGAACCTGGGATGAT 4149
DB 1 GTAGACAGGGGTTTCCATGTTGGCCAGGCTGATCTGGAACCTCTGACCTCAGGTGAT 60
QY 4150 CCACCGACGCGCTCCCAAGTGTGGGATTAACAG 4187
DB 61 CCACGTGCTCAGCCTCCCAAGTGTGGGATTAACAG 98

PRIOR APPLICATION NUMBER: 60/224,519
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 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/249,299
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 PRIOR FILING DATE: 2000-09-29
 PRIOR APPLICATION NUMBER: 60/241,785
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/244,617
 PRIOR FILING DATE: 2000-11-01
 PRIOR APPLICATION NUMBER: 60/225,268
 PRIOR FILING DATE: 2000-08-14
 PRIOR APPLICATION NUMBER: 60/236,368
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 PRIOR APPLICATION NUMBER: 60/251,868
 PRIOR FILING DATE: 2000-12-08
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 PRIOR FILING DATE: 2000-09-25
 PRIOR APPLICATION NUMBER: 60/229,343
 PRIOR FILING DATE: 2000-09-01
 PRIOR APPLICATION NUMBER: 60/229,345
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 PRIOR APPLICATION NUMBER: 60/229,287
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 PRIOR FILING DATE: 2000-09-05
 PRIOR APPLICATION NUMBER: 60/231,413
 PRIOR FILING DATE: 2000-09-08
 PRIOR APPLICATION NUMBER: 60/229,509
 PRIOR FILING DATE: 2000-09-05
 PRIOR APPLICATION NUMBER: 60/236,367
 PRIOR FILING DATE: 2000-09-29
 PRIOR APPLICATION NUMBER: 60/237,039
 PRIOR FILING DATE: 2000-10-02
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 PRIOR FILING DATE: 2000-10-02
 PRIOR APPLICATION NUMBER: 60/236,370
 PRIOR FILING DATE: 2000-09-29
 PRIOR APPLICATION NUMBER: 60/236,802
 PRIOR FILING DATE: 2000-10-02
 PRIOR APPLICATION NUMBER: 60/237,037
 PRIOR FILING DATE: 2000-10-02
 PRIOR APPLICATION NUMBER: 60/237,040
 PRIOR FILING DATE: 2000-10-02
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 PRIOR FILING DATE: 2000-11-17
 PRIOR APPLICATION NUMBER: 60/249,210
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 PRIOR FILING DATE: 2000-08-14
 PRIOR APPLICATION NUMBER: 60/225,213

PRIOR FILING DATE: 2000-08-14
 PRIOR APPLICATION NUMBER: 60/227,182
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 PRIOR APPLICATION NUMBER: 60/225,214
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 PRIOR FILING DATE: 2000-11-17
 PRIOR APPLICATION NUMBER: 60/249,212
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 PRIOR APPLICATION NUMBER: 60/249,207
 PRIOR FILING DATE: 2000-11-17
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 PRIOR FILING DATE: 2000-11-17
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 PRIOR FILING DATE: 2000-11-08
 PRIOR APPLICATION NUMBER: 60/231,243
 PRIOR FILING DATE: 2000-09-08

PRIOR APPLICATION NUMBER: 60/233,065
PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/232,398

Query Match

Best Local Similarity 1.2%; Score 80.4; DB 30; Length 99;
Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

OY 4099 GGGTTTCCGCTGGTGGCGGCTGCTGCACTTGTGACCTGCGGTGATCCACCACC 4158
DB 2 CGATTTCGCATGTTGGCCAGCTGGTCTGCACTCTGACCTGAGGTATAGCCTGCC 61
OY 4159 TCAGCTCCCAAGTCTGGGATTTACAGCGTGAGCCA 4196
DB 62 TCAGCTCCCAAGTCTGGGATTTACAGCGTGAGCCA 99

RESULT 11

US-10-092-399-41392
Sequence 41392, Application US/10092399
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PC004C1
CURRENT APPLICATION NUMBER: US/10/092,399
NUMBER OF SEQ ID NOS: 42506
Prior Application removed - See File Wrapper or Palm
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 41392
LENGTH: 99
TYPE: DNA
ORGANISM: Homo sapiens
US-10-092-399-41392

Query Match 1.2%; Score 80.4; DB 39; Length 99;
Best Local Similarity 88.8%; Pred. No. 2;

Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

OY 4099 GGGTTTCCGCTGGTGGCGGCTGCTGCACTTGTGACCTGCGGTGATCCACCACC 4158
DB 2 GGAATTCGCATGTTGGCCAGCTGGTCTGCACTCTGACCTGAGGTATAGCCTGCC 61
OY 4159 TCAGCTCCCAAGTCTGGGATTTACAGCGTGAGCCA 4196
DB 62 TCAGCTCCCAAGTCTGGGATTTACAGCGTGAGCCA 99

RESULT 12

PCT-US01-01354-41384
Sequence 41384, Application PC/TUS0101354
GENERAL INFORMATION:
APPLICANT: Human Genome Sciences, Inc. et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PC004PCT
CURRENT APPLICATION NUMBER: PCT/US01/01354
NUMBER OF SEQ ID NOS: 42506
SOFTWARE: Patentln Ver. 2.0
SEQ ID NO 41384
LENGTH: 99
TYPE: DNA
ORGANISM: Homo sapiens
PCT-US01-01354-41384

Query Match 1.2%; Score 79.6; DB 1; Length 99;
Best Local Similarity 90.4%; Pred. No. 2.5;

Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

OY 4110 TGTGGCCGCGCTGCTGCACTTGTGACCTGCGGTGATCCACCACCCTGAGCTCCCA 4169
DB 6 TGTGGCCGCGCTGCTGCACTTGTGACCTGCGGTGATCCACCACCCTGAGCTCCCA 65

OY 4170 AAGTCTGGGATTTACAGCGTGAGCCACCTGAGCC 4203
DB 66 AAGTCTGGGATTTACAGCGTGAGCCACCTGAGCC 99

RESULT 13

US-09-764-905-41384
Sequence 41384, Application US/09764905
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PC004
CURRENT APPLICATION NUMBER: US/09/764,905
PRIOR FILING DATE: 2001-01-17
PRIOR APPLICATION NUMBER: 60/179,065
PRIOR FILING DATE: 2000-01-31
PRIOR APPLICATION NUMBER: 60/180,628
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: 60/214,886
PRIOR FILING DATE: 2000-06-28
PRIOR APPLICATION NUMBER: 60/217,487
PRIOR FILING DATE: 2000-07-11
PRIOR APPLICATION NUMBER: 60/225,758
PRIOR FILING DATE: 2000-08-14
PRIOR APPLICATION NUMBER: 60/220,963
PRIOR FILING DATE: 2000-07-26
PRIOR APPLICATION NUMBER: 60/217,496
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PRIOR APPLICATION NUMBER: 60/224,518
PRIOR FILING DATE: 2000-08-14
PRIOR APPLICATION NUMBER: 60/236,369
PRIOR FILING DATE: 2000-09-29
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PRIOR FILING DATE: 2000-09-29
PRIOR APPLICATION NUMBER: 60/241,785
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/244,617
PRIOR FILING DATE: 2000-11-01
PRIOR APPLICATION NUMBER: 60/225,268

1	PRIOR FILING DATE: 2000-08-14	60/236,368
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5	PRIOR FILING DATE: 2000-12-08	60/251,868
6	PRIOR APPLICATION NUMBER: 60/251,868	
7	PRIOR FILING DATE: 2000-12-08	60/229,344
8	PRIOR APPLICATION NUMBER: 60/229,344	
9	PRIOR FILING DATE: 2000-09-01	60/234,997
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11	PRIOR FILING DATE: 2000-09-25	60/229,343
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13	PRIOR FILING DATE: 2000-09-01	60/229,345
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15	PRIOR FILING DATE: 2000-09-08	60/229,509
16	PRIOR APPLICATION NUMBER: 60/229,509	
17	PRIOR FILING DATE: 2000-09-05	60/236,367
18	PRIOR APPLICATION NUMBER: 60/236,367	
19	PRIOR FILING DATE: 2000-09-29	60/237,039
20	PRIOR APPLICATION NUMBER: 60/237,039	
21	PRIOR FILING DATE: 2000-10-02	60/237,038
22	PRIOR APPLICATION NUMBER: 60/237,038	
23	PRIOR FILING DATE: 2000-10-02	60/236,370
24	PRIOR APPLICATION NUMBER: 60/236,370	
25	PRIOR FILING DATE: 2000-09-29	60/236,802
26	PRIOR APPLICATION NUMBER: 60/236,802	
27	PRIOR FILING DATE: 2000-10-02	60/237,037
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29	PRIOR FILING DATE: 2000-10-02	60/237,040
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31	PRIOR FILING DATE: 2000-10-02	60/240,960
32	PRIOR APPLICATION NUMBER: 60/240,960	
33	PRIOR FILING DATE: 2000-10-20	60/239,935
34	PRIOR APPLICATION NUMBER: 60/239,935	
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36	PRIOR APPLICATION NUMBER: 60/239,937	
37	PRIOR FILING DATE: 2000-10-13	60/241,787
38	PRIOR APPLICATION NUMBER: 60/241,787	
39	PRIOR FILING DATE: 2000-10-20	60/246,474
40	PRIOR APPLICATION NUMBER: 60/246,474	
41	PRIOR FILING DATE: 2000-11-08	60/246,532
42	PRIOR APPLICATION NUMBER: 60/246,532	
43	PRIOR FILING DATE: 2000-11-08	60/249,216
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45	PRIOR FILING DATE: 2000-11-17	60/249,210
46	PRIOR APPLICATION NUMBER: 60/249,210	
47	PRIOR FILING DATE: 2000-11-17	60/226,681
48	PRIOR APPLICATION NUMBER: 60/226,681	
49	PRIOR FILING DATE: 2000-08-22	60/225,759
50	PRIOR APPLICATION NUMBER: 60/225,759	
51	PRIOR FILING DATE: 2000-08-14	60/225,213
52	PRIOR APPLICATION NUMBER: 60/225,213	
53	PRIOR FILING DATE: 2000-08-14	60/221,182
54	PRIOR APPLICATION NUMBER: 60/221,182	
55	PRIOR FILING DATE: 2000-08-22	60/225,214
56	PRIOR APPLICATION NUMBER: 60/225,214	
57	PRIOR FILING DATE: 2000-08-14	60/235,836
58	PRIOR APPLICATION NUMBER: 60/235,836	
59	PRIOR FILING DATE: 2000-09-27	60/230,438
60	PRIOR APPLICATION NUMBER: 60/230,438	
61	PRIOR FILING DATE: 2000-09-06	60/215,135
62	PRIOR APPLICATION NUMBER: 60/215,135	
63	PRIOR FILING DATE: 2000-06-30	60/225,266
64	PRIOR APPLICATION NUMBER: 60/225,266	
65	PRIOR FILING DATE: 2000-08-14	60/249,218
66	PRIOR APPLICATION NUMBER: 60/249,218	
67	PRIOR FILING DATE: 2000-11-17	

PRIOR APPLICATION NUMBER: 60/244,208	PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,213	PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,212	PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,207	PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,245	PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,244	PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,217	PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,211	PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,215	PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,264	PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,214	PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/249,297	PRIOR FILING DATE: 2000-11-17
PRIOR APPLICATION NUMBER: 60/232,400	PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/231,242	PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/232,081	PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/232,080	PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/231,414	PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/231,244	PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/233,064	PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/233,063	PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/232,397	PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/232,399	PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/232,401	PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/241,808	PRIOR FILING DATE: 2000-10-20
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PRIOR APPLICATION NUMBER: 60/246,475	PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 60/231,243	PRIOR FILING DATE: 2000-09-08
PRIOR APPLICATION NUMBER: 60/233,065	PRIOR FILING DATE: 2000-09-14
PRIOR APPLICATION NUMBER: 60/232,398	PRIOR FILING DATE: 2000-09-14

[illegible]

RESULT 14

US-10-092-399-41384
; Sequence 41384, Application US/10092399
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC004C1
; CURRENT APPLICATION NUMBER: US/10/092,399
; CURRENT FILING DATE: 2002-03-07
; NUMBER OF SEQ ID NOS: 42506
; Prior Application removed - See file Wrapper or Palm
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 41384
; LENGTH: 99
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-092-399-41384

Query Match

Best Local Similarity 1.2%; Score 79.6; DB 39; Length 99;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

OY 4110 TGTGGCCGGGCTGCTCGACTCTTGACCTGGGTGATCCACCCAGCTCAGCTCCCA 4169
|||||
DB 6 TGTGGCCAGGCTGTCTCGACTCTGACCGAGTGATCCACCCAGCTCAGCTCCCA 65
|||||
OY 4170 AAGTGTGGATTTACAGCGTGAAGCCACCTGCACC 4203
|||||
DB 66 AAGTGTGGATTTACAGCTGTGAGCCACAGTGCC 99
|||||

RESULT 15

PCT-US01-01324-2765
; Sequence 2765, Application PC/TUS0101324
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc., et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PC002PCT
; CURRENT APPLICATION NUMBER: PCT/US01/01324
; CURRENT FILING DATE: 2001-01-14
; Prior application data removed - refer to PALM or file wrapper
; NUMBER OF SEQ ID NOS: 5116
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2765
; LENGTH: 98
; TYPE: DNA
; ORGANISM: Homo sapiens
PCT-US01-01324-2765

Query Match

Best Local Similarity 1.2%; Score 78.8; DB 1; Length 98;
Matches 86; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

OY 4090 GTAGACACAGGTTTGGCTGTGCGCGGCTGCTCGAAGCTCTGACCTGGGTGAT 4149
|||||
DB 1 GTAGACAGCGGTTTACCATTTGGCCAGGCTGCTCGAAGCTCTGACCTGGGTGAT 60
|||||
OY 4150 CCACCCAGCTCAGCTCCCAAGTGTGGATTAAG 4187
|||||
DB 61 CCACCCAGCTTGGCTCCCAAGTGTGGATTAAG 98
|||||

Search completed: January 4, 2003, 20:26:35
Job time : 8810 secs


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; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 15268
; LENGTH: 98
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc-feature
; LOCATION: 66
; OTHER INFORMATION: w-a or t
; FEATURE:
; NAME/KEY: misc-feature
; LOCATION: 67
; OTHER INFORMATION: k-g or t
US-09-513-999C-15268
```

```
Query Match          1.1%; Score 71.6; DB 5; Length 98;
Best Local Similarity 81.6%; Pred. No. 0.25;
Matches 80; Conservative 2; Mismatches 16; Indels 0; Gaps 0;
```

```
QY 3962 TCGAGTGTGCGATCTGGGTTCACTGCAACCTCCGCTCTTGGTTCAAGCATTTCTTCT 4021
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1 TGTAGTGTGTGTGTGTGCTCTGCTGCAAAACCTCCGCTCTCTGGTTCAAGTATTCTCTT 60
```

```
QY 4022 GCTTCAGCTCCCGAGTACTGGAGTACGACGACCA 4059
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 61 GCCTCWCCTCCTGAGTGTGAGTGGATTGACGGTGCCCA 98
```

```
RESULT 7
; Sequence 19652, Application US/09513999C
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 19652
; LENGTH: 99
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-513-999C-19652
```

```
Query Match          1.0%; Score 68.8; DB 5; Length 99;
Best Local Similarity 82.3%; Pred. No. 0.57;
Matches 79; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY 3974 ATCTGGTTCACCTGCAACCTCCGCTCTTGGTTCAAGCATTTCTTCTGACGCTCC 4033
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 2 ACCTCGGCTCAGCAACTCCGCTCCGAGGTTCAAGAAATTCCTCTCCTCAGCCTCC 61
```

```
QY 4034 CGAGTAGCTGGAGTACGACGCCACCATCATGTC 4069
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 62 CAAGTGGCTGGAGTACAGGGCGACACACGACGCC 97
```

```
RESULT 8
US-09-513-999C-19833/c
; Sequence 19833, Application US/09513999C
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
```

```
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 19833
; LENGTH: 93
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-513-999C-19833
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```
Query Match          1.0%; Score 68.6; DB 5; Length 93;
Best Local Similarity 84.6%; Pred. No. 0.61;
Matches 77; Conservative 0; Mismatches 14; Indels 0; Gaps 0;
```

```
QY 4084 TTTTGTAGAGAGAGGTTTGGCGGCGGCTGTCTGAACTTTGACCTCG 4143
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 91 TTTTGTAGAGAGGCGGCTTTGGCGGTGTGCGCAGGCTGTCTTGAACCTTGCCCTCA 32
```

```
QY 4144 GGTGATCCACCACCTCAGCTCCCAAGTG 4174
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 31 AGTATCCACCCGCTGACCTCTCATAGTG 1
```

```
RESULT 9
US-09-513-999C-19825/c
; Sequence 19825, Application US/09513999C
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 19825
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-513-999C-19825
```

```
Query Match          1.0%; Score 68.4; DB 5; Length 95;
Best Local Similarity 92.3%; Pred. No. 0.64;
Matches 72; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
```

```
QY 4119 GCGTGTCTGAACTTGAACCTGGGTGATCAACCACTCAGCTCCCAAGTCTCG 4178
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 78 GCGTGTCTGAACTCAGCACTGAGTGTGATCGCCGCTCAGCTCCCAAAAGTCTCG 19
```

```
QY 4179 GATTACAGCGTGAGCCA 4196
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 18 GATTACAGCGTGAGCCA 1
```

```
RESULT 10
US-09-513-999C-20263
; Sequence 20263, Application US/09513999C
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclert, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
```



```

; APPLICANT: Duclet, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 34460
; LENGTH: 89
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-513-999C-34460

Query Match
Best Local Similarity 84.1%; Score 65.6; DB 5; Length 89;
Matches 74; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 5184 CTCACATGTTGCCAGCAGCTGTGAACCTCTGAGCTCAAGTATCTCTGCTCAG 5243
DB 88 CTCGCTATGTGCTCCAGGCTGCTCAACTTGCAGGCTCAAGTATCTCTGCTCAG 29

QY 5244 CCTCCCAAGTCTGGGATTACAGTCT 5271
DB 28 CCTCCCAAGTCTGAGATTACAGGCT 1

RESULT 15
US-09-513-999C-18226/C
; Sequence 18226, Application US/09513999C
; GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Duclet, A.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
; FILE REFERENCE: 59.US2.REG
; CURRENT APPLICATION NUMBER: US/09/513,999C
; CURRENT FILING DATE: 2000-02-24
; PRIOR APPLICATION NUMBER: US 60/122,487
; PRIOR FILING DATE: 1999-02-26
; NUMBER OF SEQ ID NOS: 36681
; SOFTWARE: Patent.pm
; SEQ ID NO 18226
; LENGTH: 88
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 71
; OTHER INFORMATION: r=a or g
; US-09-513-999C-18226

Query Match
Best Local Similarity 83.0%; Score 65.2; DB 5; Length 88;
Matches 73; Conservative 1; Mismatches 14; Indels 0; Gaps 0;

QY 5174 GAGCCAGGCTCTCAATGTTGCCAGCAGCTTGAACCTCTGAGCTCAAGTATCT 5233
DB 88 GAGACAGGCTCTCAATGTTGCCAGCTGCTCAACTCTGAGCTCAAGTATCT 29

QY 5234 CTTGCTCAGCTCCCAAGTCTGGGA 5261
DB 28 CCACTGCTCTCTGAGTCTGAGA 1
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Search completed: January 4, 2003, 20:32:17
Job time : 330 secs

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 13:05:21 : Search time 5552 Seconds
(without alignments)
19462.568 Million cell updates/sec

Title: US-10-006-366-3
Perfect score: 6672
Sequence: 1 ccccccaactgctgactgctg.....ttacttggttcaacttgt 6672

Scoring table: IDENTITY-NUC
Gap 10.0, Gapext 1.0

Searched: 16154066 seqs, 8097743376 residues
Total number of hits satisfying chosen parameters: 345212

Minimum DB seq length: 0
Maximum DB seq length: 99

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

EST:*
1: em_estba:*
2: em_esthum:*
3: em_estnu:*
4: em_estnu:*
5: em_estov:*
6: em_estpl:*
7: em_estro:*
8: em_hlc:*
9: gb_est1:*
10: gb_est2:*
11: gb_hnc:*
12: gb_est3:*
13: gb_est4:*
14: gb_est5:*
15: em_estfun:*
16: em_estom:*
17: gb_gss:*
18: em_gss_hum:*
19: em_gss_inv:*
20: em_gss_pln:*
21: em_gss_vrt:*
22: em_gss_fun:*
23: em_gss_mam:*
24: em_gss_mus:*
25: em_gss_other:*
26: em_gss_pro:*
27: em_gss_rod:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	75.6	1.1	99	13	BI017753 PM3-ET027
2	73.8	1.1	95	9	AA669571 ac18d10.s
3	72	1.1	82	14	T81021 yq25b03.s1
4	72	1.1	99	13	BS977835 MR2-CT012
5	71.6	1.1	94	10	AM339643 he15e10.x
6	71.6	1.1	96	17	AF149606 AF149606

RESULT 1	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM	REFERENCE	AUTHORS	TITLE	JOURNAL	MEDLINE	COMMENT
BI017753	PM3-ET0277-160401-003-h09_1 ET0277	99 bp mRNA Homo sapiens CDNA, mRNA	BI017753	1	GI:14421824	human.	Homo sapiens	Dias Neto E., Garcia Correa R., Verjovski-Almeida S., Briones M.R., Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.	Magal M.A., da Silva W. Jr., Zago M.A., Bordin S., Costa F.F., Goldman G.H., Carvalho A.F., Matsukuma A., Bata G.S., Simpson D.H., Brundstein A., de Oliveira P.S., Bucher P., Jongeneel C.V., O'Hare M.J., Soares F., Brentani R.R., Reis L.F., de Souza S.J. and Simpson A.J.	Shotgun sequencing of the human transcriptome with ORF expressed sequence tags	Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)	Contact: Simpson A.J.G. Laboratory of Cancer Genetics Ludwig Institute for Cancer Research Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil Tel: +55-11-2704922	

ALIGNMENTS

AM61507 RC2-CT032
AA474905 xy21d11.x
H67549 yu68f10.s1
AA486800 ab19a06.r
AF149649 AF149649
F30221 HSPD20571 H
F36219 HSPD13614 H
F26214 y96c02.r1
AA608742 ae56g04.s
AA457423 aa6b02.r
AA053038 z171e12.s
BH770807 LMGtag55
AA280198 zt04b12.r
BF542018 602069163
F28887 HSPD18432 H
AA649287 ns12h07.s
A2576255 AST-TD14S
AA454805 xz77f08.r
AA180452 zp14e02.s
AA775155 ac78e03.s
BC029559 602296728
AA665078 nu76b10.s
AA077606 7b27B09 C
AA729064 nu22f09.s
AA923035 OK28a01.S
A1168167 oo09e10.x
AF219090 AF219090
BG108795 HRPE0923
AA486752 ab17B03.s
AM072612 xa37d09.x
BG674517 602620555
BF130198 601818222
AF149464 AF149464
T82910 yq39d02.r1
B0446872 UI-H-EU1-
AA828120 og71a01.s
F24101 HSPD10121 H
A275706 ew08c06.r
AA494010 ng60b01.s

(Pharmacia), digested with Pac I and cloned into the Pac I and Eco RI sites of the modified pT73 vector. Library went through one round of normalization. Library constructed by Bento Soares and M. Fatima Bonaldo."

BASE COUNT

15 a 25 c 18 g 24 t

Query Match 1.1%; Score 72; DB 14; Length 82;
Best Local Similarity 93.8%; Pred. No. 0.061;
Matches 75; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5189 TATGTTGCCAGGAGGCTGTTGAACCTCTGGCTTCAAGTATTCCTGCTCAGCCTCC 5248

DB 2 TATGTTGCCAGGAGGCTGTTGAACCTCTGGCTTCAAGTATTCCTGCTCAGCCTCC 61

QY 5249 CAAAGTGTGGGATTACAG 5268

DB 62 CAAAGTGTGGGATTACAG 81

RESULT 4

BC977835

LOCUS BC977835 99 bp mRNA linear EST 12-JUN-2001

DEFINITION MR2-C10128-110101-016-f07_1 C10128 Homo sapiens cDNA, mRNA

ACCESSION BC977835

VERSION BC977835.1 GI:14380570

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

AUTHORS Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Briones, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordin, S., Costa, F.F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Bala, G.S., Simpson, D.H., Brunstein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, F., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.

TITLE Shotgun sequencing of the human transcriptome with ORF expressed

sequence tags

Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)

JOURNAL

MEDLINE

COMMENT

Contact: Simpson A.J.G.
Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil

Tel: +55-11-2704922

Fax: +55-11-2707001

Email: asimpson@ludwig.org.br

This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL

(http://www.ludwig.org.br/scripts/gethtml2.pl?fl=MR2&ct=MR2-C10128-110101-016-f07_1&f3=2001-01-11&f4=1)

Seq primer: puc 18 forward

High quality sequence stop: 99.

Location/Qualifiers

1..99

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone_id="C10128"

/dev_stage="Adult"

/note="Organ: colon, ins: Vector: puc18; Site:1: SmaI; Site:2: SmaI; A mini-library was made by cloning products derived from ORFESTS PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."

BASE COUNT

13 a 34 c 28 g 21 t 3 others

ORIGIN

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

13 a 34 c 28 g 21 t 3 others

Query Match 1.1%; Score 72; DB 13; Length 99;
Best Local Similarity 81.8%; Pred. No. 0.058;
Matches 81; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 3945 TGTGCCCCAGGCTGGCGTGCAGTGTGCGATGCGGTTCACTGCAACCTCCGCTTGG 4004

DB 1 TGTGCCCCAGGCTGGCGTGCAGTGTGCGATGCGGTTCACTGCAACCTCCGCTTGG 60

QY 4005 GTTCAACGATTTCTTCTGCTTCAAGCTCCCGAGTACTG 4043

DB 61 GTTCAACGATTTCTTCTGCTTCAAGCTCCCGAGTACTG 99

RESULT 5

AM339643

LOCUS AM339643 94 bp mRNA linear EST 31-JAN-2000

DEFINITION he15e10.x1 NCI-CGAP CML1 Homo sapiens cDNA clone IMAGE:2919114 3'

ACCESSION AM339643

VERSION AM339643.1 GI:6836269

KEYWORDS EST.

SOURCE human.

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

AUTHORS NCI-CGAP

TITLE http://www.ncbi.nlm.nih.gov/ncicgap.

National Cancer Institute, Cancer Genome Anatomy Project (CGAP),

Tumor Gene Index

Unpublished (1997)

Contact: Robert Strausberg, Ph.D.

Email: cga@bcrfemail.nih.gov

Tissue procurement: Elisabeth Paietta, Jonathan D. Licht, M.D.,

Michael R. Emmerl-Buck, M.D., Ph.D. cDNA Library Preparation: Life

Technologies, Inc. cDNA Library Arrayed by: Christa Prange, The

I.M.A.G.E. Consortium DNA Sequencing by: Washington University

Genome Sequencing Center

Clone distribution: NCI-CGAP clone distribution information can be

found through the I.M.A.G.E. Consortium/LLNL at:

www.bio.llnl.gov/dbp/image/image.html

Possible reversed clone: polyT not found

Seq primer: -40UP from Gibco

High quality sequence stop: 90.

Location/Qualifiers

1..94

/organism="Homo sapiens"

/db_xref="taxon:9606"

/clone_id="IMAGE:2919114"

/clone_id="NCI-CGAP CML1"

/tissue_type="myeloid cells, 18 pooled CML cases, BCR/ABL

rearrangement positive, includes both chronic phase and

myeloid blast crisis"

/lab_host="DH10B"

/note="Organ: whole blood; Vector: PCMV-SPOPT6; Site:1:

SaII; Site:2: NotI; Cloned unidirectionally. Primer:

Oligo dt. Library constructed by Life Technologies."

BASE COUNT

18 a 28 c 24 g 24 t

ORIGIN

1.1%; Score 71.6; DB 10; Length 94;

Best Local Similarity 85.1%; Pred. No. 0.068;

Matches 80; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 5171 GTAGAGCCAGGCTGCTACATATGTTGCCAGGAGGCTTGAACCTCCGCTTGAATGAT 5230

DB 1 GTAGAGATGTGCTCATATGTTGCCAGGAGGCTGCTGAACCTCCGCTTGAATGAT 60

QY 5231 TGTCTGCTCAGCCTCCAGCCTCCCAAGTCTGGGATTA 5264

DB 61 CTTCCACACCCCGCTTCCCAAAATGCTGGGATTA 94


```

/dev-stage="72 years"
/lab-host="SOLR cells (kanamycin resistant)"
/notes="Organ: Lung; Vector: pBluescript SK+; Site: 1: EcoRI
; Site: 2: XhoI; Cloned unidirectionally. Primer: Oligo
dT, normal lung. Average insert size: 1.0 kb; Uni-ZAP XR
Vector: -5' adaptor sequence: 5' GAATTCGGCAGCAG 3' -3'
adaptor sequence: 5' CTCGAGCTTTTCTTTTCTTTT 3'"

BASE COUNT      22 a      20 c      40 g      17 t
ORIGIN
Query Match      1.0%; Score 67.2; DB 9; Length 99;
Best Local Similarity 81.2%; Pred. No. 0.36;
Matches 78; Conservative 0; Mismatches 18; Indels 0; Gaps 0;

QY 3974 ATCTGGTTCATCTGCACACCTCCGCTTGTGTTCAAGCATCTTCGCTCAGCGTCC 4033
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 99 ATCTGGTTCATCTGCACACCTCCGCTTGTGTTCAAGCATCTTCGCTCAGCGTCC 40

QY 4034 CGAGTACCTGGAGCTACAGGACCCACCATCATGTC 4069
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 39 CTAGTACCTGGAGCTACAGGATTCATGTCACCGCCG 4

RESULT 11
AF149649      97 bp      DNA      linear      GSS 12-JUN-2000
LOCUS      AF149649 Human chromosome 18q21 from exon-trapping Homo sapiens
DEFINITION      genomic clone sm14, DNA sequence.
ACCESSION      AF149649
VERSION      AF149649.1 GI:8485987
KEYWORDS      GSS.
SOURCE      human.
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE      1 (bases 1 to 97)
AUTHORS      Chen, H., Huo, Y., Patel, S., Zhu, X., Swift-Scanlan, T., Reeves, R.H.,
DePaulo, R. Jr., Ross, C.A. and McInnis, M.G.
TITLE      Gene identification using exon amplification on human chromosome
18q21: implications for bipolar disorder
JOURNAL      Mol Psychiatry 5 (5), 502-509 (2000)
MEDLINE      20485132
COMMENT      Contact: Chen H
psychiatry and Behavioral Sciences
Johns Hopkins University School of Medicine
600 N. Wolfe Street, Baltimore, MD 21287, USA
Email: hweleclink.welch.jhu.edu
Class: exon-trapped.
FEATURES
source
1..97
/organism="Homo sapiens"
/db_xref="taxon:9606"
/map="18q21"
/clone="sm14"
/clone_lib="Human chromosome 18q21 from exon-trapping"
/notes="bacterial artificial chromosome library prepared in
pBACs.6 vector via DNA partially digested with a
combination of EcoRI and EcoRI methylase for library
segments 162 or either MboI or DpnII for library segments
364. Size selected DNA was cloned into the pBACs.6 vector
at the EcoRI sites for library segments 162 (plates 1-480)
or the BamHI sites for library segments 364 (plates
481-1056). http://www.choi.org/bacpac/"

BASE COUNT      16 a      31 c      28 g      22 t
ORIGIN
Query Match      1.0%; Score 66.6; DB 17; Length 97;
Best Local Similarity 80.4%; Pred. No. 0.45;
Matches 78; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 3956 CTGGCGTGCAGTGTGTCATCTGGCTTCACTGACACTCCGCTCTTGGGCTCAGGAGT 4015
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 1 CTGGAGTGCAGATGGCGGATCTCGGCTCACTGACGCTTGACCTCTGGGCTCAGGAGT 60

```

```

QY 4016 TCTTCTCTTACGCTCCGAGTACCTGGAGTACAG 4052
      ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 61 CTCCTGTCTCAGACCTCTGAGTACCTGGAGTACAG 97

RESULT 12
F30221/C      92 bp      mRNA      linear      EST 13-MAY-1999
LOCUS      F30221 HSPD20571 HM3 Homo sapiens cDNA clone s400009612, mRNA sequence.
DEFINITION      F30221
ACCESSION      F30221
VERSION      F30221.1 GI:4815847
KEYWORDS      EST.
SOURCE      human.
ORGANISM      Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE      1 (bases 1 to 92)
AUTHORS      Lanfranchi, G., Muraro, T., Caldera, F., Pacchioni, B., Pallavicini, A.,
Pandolfo, D., Toppo, S., Trevisan, S., Scarso, S. and Valle, G.
TITLE      Identification of 4370 expressed sequence tags from a
3'-end-specific cDNA library of human skeletal muscle by DNA
sequencing and filter hybridization
JOURNAL      Genome Res. 6 (1), 35-42 (1996)
MEDLINE      96276048
COMMENT      Contact: Valle G.
CIRI Biotechnology Centre
University of Padua
Via Trieste 75, 35121 Padua, Italy
ABI Chromatograms and other information are available on WWW at
http://grup.bio.unipd.it.
FEATURES
source
1..92
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="s400009612"
/clone_lib="HM3"
/sex="female"
/tissue_type="pectoral muscle (after mastectomy)"
/notes="Vector: pCDN4II (Invitrogen); Site: 1: BstXI;
Site: 2: NotI. The library is not subtracted nor normalized.
Lanfranchi. This library is primed with a biotinylated
The first strand cDNA was primed with a biotinylated
oligo-dT-NotI primer
(5'-biotin-AACCGGCTCGGAGCGGCGCTTTTCTTTTCTTTT-3'). The
ds cDNA was sonicated and size-selected in the range
350-550 bp. The 3' specific fragments were selected by
streptavidin coated magnetic beads, ligated to
non-palindromic BstXI adapters, NotI digested and
directionally cloned into BstXI-NotI cut pCDN4II vector."

BASE COUNT      20 a      22 c      33 g      17 t
ORIGIN
Query Match      1.0%; Score 66.4; DB 14; Length 92;
Best Local Similarity 82.6%; Pred. No. 0.49;
Matches 76; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 3949 GCCCAGCTGGCGCTGCAGTGTGTCATCTGGCTTCACTGACACTCCGCTTGGGTTTC 4008
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 92 GCCCAGCTGGCGCTGCAGTGTGTCATCTGGCTTCACTGACACTCCGCTTGGGTTTC 33

QY 4009 AAGCATCTCTTCTGCTTCAGCCGCCGAGTAG 4040
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 32 AAGCATCTCTCCACATCATCTCCCGAGGAG 1

RESULT 13
F26219      99 bp      mRNA      linear      EST 13-MAY-1999
LOCUS      F26219 HSPD13614 HM3 Homo sapiens cDNA clone s4000051B06, mRNA sequence.
DEFINITION      F26219
ACCESSION      F26219
VERSION      F26219.1 GI:4811845
KEYWORDS      EST.

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SOURCE	human.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
TITLE	1 (bases 1 to 99)
JOURNAL	Lanfranchi,G., Muraro,T., Caldarà,F., Pacchioni,B., Pallavicini,A.,
MEDLINE	Pandolfi,D., Toppo,S., Trevisan,S., Scarsio,S. and Valle,G.
COMMENT	Identification of 4370 expressed sequence tags from a 3'-end-specific cDNA library of human skeletal muscle by DNA sequencing and filter hybridization
JOURNAL	Genome Res. 6 (1), 35-42 (1996)
MEDLINE	96276048
CONTACT:	Contact: Valle G.
CRTBI Biotechnology Centre	
University of Padua	
Via Trieste 75, 35121 Padua, Italy	
ABI Chromatograms and other information are available on WWW at	
http://group.bio.unipd.it.	
Location/Qualifiers	
1..99	
/organism="Homo sapiens"	
/db_xref="taxon:9606"	
/clone="s4000051B06"	
/clone_lib="HM3"	
/sex="female"	
/tissue_type="pectoral muscle (after mastectomy)"	
/note=Vector: pCDMAlt (Invitrogen); Site_1: BstXI;	
Site_2: NotI; The library was constructed by G.	
Lanfranchi. This library is not subtracted nor normalized.	
The first strand cDNA was primed with a biotinylated	
oligo-dT-NotI primer	
(5'-biotin-AACCCGGCTCGAGCAGGCGCCGTTCCTTTTTCCTTTTTCCTT-3'). The	
ds cDNA was sonicated and size-selected in the range	
350-550 bp. The 3' specific fragments were selected by	
streptavidin coated magnetic beads, ligated to	
non-palindromic BstXI adapters, NotI digested and	
directionally cloned into BstXI-NotI cut pCDMAlt vector."	
BASE COUNT	. 19 a 28 c 22 g 30 t
ORIGIN	
Query Match	1.0%; Score 66; DB 14; Length 99;
Best Local Similarity	79.6%; Pred. No. 0.56;
Matches	78; Conservative 0; Mismatches 20; Indels 0; Gaps 0;
OY 4077	TTTTTCATTTTTGTTAGAGACAGGGTTTGGCCGTGTGGCGGCTGCTCGAATCTT 4136
Db 2	TTTTGTATTTTAGTAGAGCAGCGGCTTCACATATGTGCCAGCGCTGCATAACTCCT 61
OY 4137	GACCTCGGCTGATCCACCACCACTCATGCTCCCAAAGTG 4174
Db 62	GAGCTCAGGCATCTGCCACCTCAGCCTCCAAAGTG 99
LOCUS	T62174 87 bp mRNA linear EST 14-FEB-1995
DEFINITION	ybs6c02.r1 Striatogene lung (#373210) Homo sapiens cDNA clone
VERSION	IMAGE:79010 5' similar to contains Alu repetitive element;; mRNA
KEYWORDS	sequence.
ACCESSION	T62174
VERSION	T62174.1 GI:665417
KEYWORDS	EST.
SOURCE	human.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
TITLE	1 (bases 1 to 87)
JOURNAL	Hillier,L., Lennon,G., Becker,M., Bonaldo,M.F., Chiapelli,B.,
MEDLINE	Chissole,S., Dietrich,N., Dubugue,T., Favellio,A., Gish,W., Hawkins
COMMENT	M., Hultman,M., Kucaba,T., Lacy,M., Le,M., Le,N., Mardis,E., Moore
JOURNAL	B., Morris,M., Parsons,J., Prange,C., Riffin,L., Rolffing,T.,
MEDLINE	Schellenberg,K., Soares,M.B., Tan,F., Thierry-Mieg,J., Trevakis,E.,
CONTACT:	Underwood,K., Woldmann,P., Waterston,R., Wilson,R. and Marra,M.

JOURNAL TITLE	Generation and analysis of 280,000 human expressed sequence tags
JOURNAL MEDLINE	Genome Res. 6 (9), 807-828 (1996)
COMMENT	97044478 Contact: Wilson RK Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: estewatson.wustl.edu Insert Size: 447 High quality sequence stops: 55 Source: IMAGE Consortium, LNL. This clone is available royalty-free through LNL; contact the IMAGE Consortium (info@image.lnl.gov) for further information. Insert Length: 447 Std Error: 0.00 Seq primer: M13RP1 High quality sequence stop: 55. Location/Qualifiers 1..87 /organism="Homo sapiens" /db_xref="GDB:482627" /db_xref="taxon:9606" /clone="IMAGE:79010" /clone_lib="Stratagene lung (#937210)" /sex="male" /dev_string="72 years" /lab_host="SOIR cells (kanamycin resistant)" /note="Organ: Lung; Vector: pBluescript SK-; Site:1: EcorRI /Site:2: XhoI; Cloned unidirectionally. Primer: Oligo dT, normal lung. Average insert size: 1.0 kb; Uni-ZAP XR Vector: -5' adaptor sequence: 5' GAATTCGCGCAGG 3' ~3' adaptor sequence: 5' CTCGAGTTTCTTTTCTTTTCTT 3' "
FEATURES	
source	
BASE COUNT	22 a 19 c 30 g 15 t 1 others
ORIGIN	
Query Match	1.0%; Score 65.6; DB 14; Length 87;
Best Local Similarity	88.8%; Pred. NO. 0.68;
Matches	71; Conservative 0; Mismatches 9; Indels 0; Gaps 0;
QY	5193 TTGCCAGCAGCGTTTGAACCTCGGCCCTCAAGTATTCCTCGCCACGCTCCCAAA 5252 81 TTGCCAGCGCTGTCTCGACCCCTCGGCTCAAGTATTCCTCCACACGCTCCCAAA 22
QY	5253 GTCGCTGGATTACAGTGTG 5272
DB	21 GTGCTGGATTACAGATGCG 2
RESULT 15	
LOCUS	AA608742 90 bp mRNA linear EST 09-MAR-1998
DEFINITION	aes6g04.s1 Stratagene lung carcinoma 937218 Homo sapiens cDNA clone IMAGE:950934 3', similar to contains Alu repetitive element;; mRNA sequence.
ACCESSION	AA608742
VERSION	AA608742.1 GI:2457170
KEYWORDS	EST.
SOURCE	human.
ORGANISM	Homo sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS	1 (bases 1 to 90) Hillier,L., Allen,M., Bowles,L., Dubuque,T., Giesel,G., Jost,S., Kizman,D., Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin, J., Moore,B., Schellenberg,K., Stepien,M., Tan,F., Theising,B., White,Y., Wylie,T., Waterston,R. and Wilson,R.
TITLE	Washu-NCI human EST Project
JOURNAL COMMENT	Unpublished (1997) Contact: Wilson RK Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: estewatson.wustl.edu

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OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 13:06:00 ; Search time 137 Seconds
(without alignments)
14935.362 Million cell updates/sec

Title: US-10-006-366-3

Sequence: 1 ccccccaactgctgactgtf.....ttacttggttacacttgt 6672

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Gapop 10.0 , Gapext 1.0

Searched: 441362 seqs, 15338381 residues

Total number of hits satisfying chosen parameters: 666582

Minimum DB seq length: 0
Maximum DB seq length: 99

Post-processing: Minimum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*

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4: /cgn2_6/plodata/1/ina/6B_COMB.seq:*
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6: /cgn2_6/plodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	67	1.0	75	4	US-09-357-740-15
2	65.4	1.0	75	4	US-09-357-740-14
3	59.6	0.9	75	4	US-09-461-697-130
4	56.6	0.8	84	2	US-08-454-557C-91
5	56.6	0.8	84	2	US-08-340-426D-91
6	56.6	0.8	84	2	US-08-450-673C-91
7	56.6	0.8	84	5	PCt-US95-17111A-91
8	56	0.8	88	2	US-08-988-128-1
9	56	0.8	88	2	US-08-988-128-2
10	54.8	0.8	75	3	US-09-056-762-7
11	54.8	0.8	75	4	US-09-461-697-151
12	52	0.8	60	2	US-08-454-557C-60
13	52	0.8	60	2	US-08-340-426D-60
14	52	0.8	60	2	US-08-450-673C-60
15	52	0.8	60	5	PCt-US95-17111A-60
16	49.6	0.7	94	3	US-08-750-064-6
17	45.2	0.7	83	2	US-08-481-658B-66
18	45.2	0.7	83	2	US-08-477-504A-66
19	45.2	0.7	83	2	US-08-486-756A-66
20	45.2	0.7	83	2	US-08-485-862B-66
21	45.2	0.7	83	3	US-08-787-739-66
22	45.2	0.7	83	3	US-08-487-077A-66
23	45.2	0.7	83	3	US-08-485-863A-66
24	45.2	0.7	83	4	US-08-485-049D-66
25	45.2	0.7	83	4	US-09-178-115-66
26	45.2	0.7	83	4	US-09-177-776-66
27	42.4	0.6	60	2	US-08-454-557C-59

28	42.4	0.6	60	2	US-08-340-426D-59	Sequence 59, Appl
29	42.4	0.6	60	2	US-08-450-673C-59	Sequence 59, Appl
30	42.4	0.6	60	3	US-08-545-860D-71	Sequence 71, Appl
31	42.4	0.6	60	5	PCt-US94-04496-71	Sequence 71, Appl
32	42.4	0.6	60	5	PCt-US95-17111A-59	Sequence 59, Appl
33	42.4	0.6	73	3	US-09-056-762-8	Sequence 8, Appl
34	40.8	0.6	85	2	US-08-454-557C-92	Sequence 92, Appl
35	40.8	0.6	85	2	US-08-340-426D-92	Sequence 92, Appl
36	40.8	0.6	85	2	US-08-450-673C-92	Sequence 92, Appl
37	40.8	0.6	85	5	PCt-US95-17111A-92	Sequence 92, Appl
38	40	0.6	57	2	US-08-332-766A-3	Sequence 3, Appl
39	38.6	0.6	78	2	US-08-454-557C-70	Sequence 70, Appl
40	38.6	0.6	78	2	US-08-340-426D-70	Sequence 70, Appl
41	38.6	0.6	78	2	US-08-450-673C-70	Sequence 70, Appl
42	38.6	0.6	78	5	PCt-US95-17111A-70	Sequence 7, Appl
43	38.2	0.6	43	2	US-08-988-128-7	Sequence 8, Appl
44	38.2	0.6	43	2	US-08-988-128-8	Sequence 8, Appl
45	37.6	0.6	47	4	US-09-641-638-660	Sequence 660, App

ALIGNMENTS

```
RESULT 1
US-09-357-740-15
; Sequence 15, Application US/09357740
; Patent No. 6348596
; GENERAL INFORMATION:
; APPLICANT: Lee, Linda G.
; APPLICANT: Graham, Ronald J.
; APPLICANT: Mullah, Khalruzzaman B.
; APPLICANT: Haxo, Francis T.
; TITLE OF INVENTION: ASYMMETRIC CYANINE DYE QUENCHERS
; FILE REFERENCE: 9584-007
; CURRENT APPLICATION NUMBER: US/09/357,740
; CURRENT FILING DATE: 1999-07-20
; EARLIER APPLICATION NUMBER: 09/012,525
; EARLIER FILING DATE: 1998-01-23
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 15
; LENGTH: 75
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; US-09-357-740-15
; OTHER INFORMATION: Oligonucleotide

Query Match      1.0%  Score 67;  DB 4;  Length 75;
Best Local Similarity 93.3%  Pred. No. 1.1e-06;
Matches 70;  Conservative 0;  Mismatches 5;  Indels 0;  Gaps 0;

QY  5133 TTGCCACGCGAGGCTTACGCTCAGGCTCAGGATTCCTGCTCAGCCTCCCAA 5252
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DB  1 TTGGCAGGCGCTGCTTAACTCTCGACCTCAAGTACGACACCTGCGCCACCTCCCAA 60
    ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY  5253 GTGCTGGATTACAG 5267
    ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB  61 GTCCTGGATTACAG 75

RESULT 2
US-09-357-740-14
; Sequence 14, Application US/09357740
; Patent No. 6348596
; GENERAL INFORMATION:
; APPLICANT: Lee, Linda G.
; APPLICANT: Graham, Ronald J.
; APPLICANT: Mullah, Khalruzzaman B.
; APPLICANT: Haxo, Francis T.
; TITLE OF INVENTION: ASYMMETRIC CYANINE DYE QUENCHERS
; FILE REFERENCE: 9584-007
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;; CURRENT APPLICATION NUMBER: US/09/357,740
;; CURRENT FILING DATE: 1999-07-20
;; EARLIER APPLICATION NUMBER: 09/012,525
;; EARLIER FILING DATE: 1998-01-23
;; NUMBER OF SEQ ID NOS: 22
;; SOFTWARE: PatentIn Ver. 2.0
;; SEQ ID NO 14
;; LENGTH: 75
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence:
;; OTHER INFORMATION: Oligonucleotide
US-09-357-740-14

Query Match 1.0%; Score 65.4; DB 4; Length 75;
Best Local Similarity 92.0%; Pred. No. 2.7e-06;
Matches 69; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 5193 TTGCCAGCAGGCTTGTGACTCTGCGCCCTGAGTGTTCCTGCGCCAGCCCTCCCAA
DB 1 TTGCCAGCAGGCTTGTGACTCTGCGCCCTGAGTGTTCCTGCGCCAGCCCTCCCAA 60

QY 5253 GTGCTGGGATTACAG 5267
DB 61 GTGCTGGGATTACAG 75

RESULT 3
US-09-461-697-130/c
;; Sequence 130, Application US/09461697
;; Patent No. 6277974
;; GENERAL INFORMATION:
;; APPLICANT: COGENT NEUROSCIENCE, Inc.
;; APPLICANT: Lo, Donald C.
;; APPLICANT: Barney, Shawn
;; APPLICANT: Thomas, Mary Beth
;; APPLICANT: Portbury, Stuart D.
;; APPLICANT: Putnam, Kasuri
;; APPLICANT: Katz, Lawrence C.
;; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR DIAGNOSING
;; TITLE OF INVENTION: AND TREATING CONDITIONS, DISORDERS, OR DISEASES INVOLVING
;; TITLE OF INVENTION: CELL DEATH
;; FILE REFERENCE: 10001-005-999
;; CURRENT APPLICATION NUMBER: US/09/461,697
;; CURRENT FILING DATE: 1999-12-14
;; NUMBER OF SEQ ID NOS: 466
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 130
;; LENGTH: 75
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-461-697-130

Query Match 0.9%; Score 59.6; DB 4; Length 75;
Best Local Similarity 87.8%; Pred. No. 5.9e-05;
Matches 65; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 4117 CGGCGTGGTCTGCACTCTTGACCTGGGTGATCCACCCACCCAGCCCAAGTGGT 4176
DB 74 CAGGCGGCTCTGCACTCTGCACTCTGACATGATGATCCACCCAGCCCTGCCCAAGTGGT 15
QY 4177 GGGATTACAGCGT 4190
DB 14 GGGATTACAGCGAT 1

RESULT 4
US-08-454-557C-91
;; Sequence 91, Application US/08454557C
;; Patent No. 5830670
;; GENERAL INFORMATION:
;; APPLICANT: de la Monte, Suzanne

;; APPLICANT: Wands, Jack R.
;; TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection
;; TITLE OF INVENTION: of Alzheimer's Disease
;; NUMBER OF SEQUENCES: 121
;; CORRESPONDENCE ADDRESS:
;; ADDRESS: Sterne, Kessler, Goldstein & Fox P.L.L.C.
;; STREET: 1100 New York Avenue, Suite 600
;; CITY: Washington
;; STATE: D.C.
;; COUNTRY: U.S.A.
;; ZIP: 20005-3934
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/454,557C
;; FILING DATE: 30-MAY-1995
;; CLASSIFICATION: 514
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Ludwig, Steven R.
;; REGISTRATION NUMBER: 36,203
;; REFERENCE/DOCKET NUMBER: 0609.3840003
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: (202) 371-2600
;; TELEFAX: (202) 371-2540
;; INFORMATION FOR SEQ ID NO: 91:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 84 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: both
;; TOPOLOGY: both
US-08-454-557C-91

Query Match 0.8%; Score 56.6; DB 2; Length 84;
Best Local Similarity 87.1%; Pred. No. 0.00031;
Matches 74; Conservative 0; Mismatches 9; Indels 2; Gaps 1;

QY 4107 CCGTGTGGCGGCGCTGCTGCACTCTGACCTGGGTGATCCACCCAGCCCTCAGCTC 4166
DB 1 CCATGTTCACTGAGCTGGGTCGACCTCTGACCTC--GTGATCGCGCGGCTCAGCTC 58
QY 4167 CCAAGTGTGGGATTACAGCGTG 4191
DB 59 CCAAGTGTGGGATTACAGCGTG 83

RESULT 5
US-08-340-426D-91
;; Sequence 91, Application US/08340426D
;; Patent No. 5948634
;; GENERAL INFORMATION:
;; APPLICANT: de la Monte, Suzanne
;; APPLICANT: Wands, Jack R.
;; TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection
;; TITLE OF INVENTION: of Alzheimer's Disease
;; NUMBER OF SEQUENCES: 121
;; CORRESPONDENCE ADDRESS:
;; ADDRESS: Sterne, Kessler, Goldstein & Fox P.L.L.C.
;; STREET: 1100 New York Avenue, Suite 600
;; CITY: Washington
;; STATE: D.C.
;; COUNTRY: U.S.A.
;; ZIP: 20005-3934
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.25
;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/340,426D
;; FILING DATE: 14-NOV-1994

```
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Ludwig, Steven R.
REGISTRATION NUMBER: 36,203
REFERENCE/DOCKET NUMBER: 0609.3840002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 91:
SEQUENCE CHARACTERISTICS:
LENGTH: 84 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
US-08-340-426D-91

Query Match
Best Local Similarity 87.1%; Score 56.6; DB 2; Length 84;
Matches 74; Conservative 0; Mismatches 9; Indels 2; Gaps 1;

QY 4107 CCGTGTGGCGGGGCTGCTCGAAGCTCTTGACCTCGGTCGATCCACCACTCAGCCTC 4166
DB 1 CCATGTCATCAGGCTGCTGTCGAAGCTCTGACCTC--GTGATCCGCCGCCCTCAGCCTC 58
QY 4167 CCAAGTCTGCTGGATTACAGCGTG 4191
DB 59 CCAAGTCTGCTGGATTACAGCGTG 83

RESULT 6
US-08-450-673C-91
Sequence 91, Application US/08450673C
Patent No. 5948888
GENERAL INFORMATION:
APPLICANT: de la Monte, Suzanne
APPLICANT: Wands, Jack R.
TITLE OF INVENTION: Neural Thread Protein Gene Expression and Detection
TITLE OF INVENTION: of Alzheimer's Disease
NUMBER OF SEQUENCES: 121
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
STREET: 1100 New York Avenue, Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/450.673C
FILING DATE: 30-MAY-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Ludwig, Steven R.
REGISTRATION NUMBER: 36,203
REFERENCE/DOCKET NUMBER: 0609.3840004
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 91:
SEQUENCE CHARACTERISTICS:
LENGTH: 84 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
US-08-450-673C-91

Query Match
Best Local Similarity 87.1%; Score 56.6; DB 2; Length 84;
Matches 74; Conservative 0; Mismatches 9; Indels 2; Gaps 1;
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QY 4107 CCGTGTGGCGGGGCTGCTCGAAGCTCTTGACCTCGGTCGATCCACCACTCAGCCTC 4166
DB 1 CCATGTCATCAGGCTGCTGTCGAAGCTCTGACCTC--GTGATCCGCCGCCCTCAGCCTC 58
QY 4167 CCAAGTCTGCTGGATTACAGCGTG 4191
DB 59 CCAAGTCTGCTGGATTACAGCGTG 83

RESULT 7
PCT-US95-17111A-91
Sequence 91, Application PC/PUS9517111A
GENERAL INFORMATION:
APPLICANT: de la Monte, Suzanne
APPLICANT: Wands, Jack R.
TITLE OF INVENTION: Neural Thread Protein Gene Expression and
TITLE OF INVENTION: Detection of Alzheimer's Disease
NUMBER OF SEQUENCES: 121
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
STREET: 1100 New York Avenue, Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/17111A
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/340,426
FILING DATE: 14-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ludwig, Steven R.
REGISTRATION NUMBER: 36,203
REFERENCE/DOCKET NUMBER: 0609.3840002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 91:
SEQUENCE CHARACTERISTICS:
LENGTH: 84 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
PCT-US95-17111A-91

Query Match
Best Local Similarity 87.1%; Score 56.6; DB 5; Length 84;
Matches 74; Conservative 0; Mismatches 9; Indels 2; Gaps 1;

QY 4107 CCGTGTGGCGGGGCTGCTCGAAGCTCTTGACCTCGGTCGATCCACCACTCAGCCTC 4166
DB 1 CCATGTCATCAGGCTGCTGTCGAAGCTCTGACCTC--GTGATCCGCCGCCCTCAGCCTC 58
QY 4167 CCAAGTCTGCTGGATTACAGCGTG 4191
DB 59 CCAAGTCTGCTGGATTACAGCGTG 83

RESULT 8
US-08-988-128-1
Sequence 1, Application US/08988128
Patent No. 5994505
GENERAL INFORMATION:
APPLICANT: Ting, Jenny Pan-Yung
APPLICANT: Chin, Keh-Chin
```

RESULT 11
US-09-461-697-151/C
Sequence 151, Application US/090461697
Patient No. 6277574
GENERAL INFORMATION:
APPLICANT: COGENT NEUROSCIENCE, Inc.
APPLICANT: Lo, Donald C.
APPLICANT: Barrey, Shawn
APPLICANT: Thomas, Mary Beth

ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/450,673C
FILING DATE: 30-MAY-1995
CLASSIFICATION: 530
ATTORNEY/AGENT INFORMATION:
NAME: Ludwig, Steven R.
REGISTRATION NUMBER: 36,203
REFERENCE/DOCKET NUMBER: 0609.3840004
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 60:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 base pairs
TYPE: nucleic acid
STRANDEDNESS: both
TOPOLOGY: both
US-08-450-673C-60

Query Match
Best Local Similarity 91.7%; Score 52; DB 2; Length 60;
Matches 55; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 4121 CTGGTCTGAACTCTTGACCTCGGCGTATCCACCCAGCTCAGCCTCCCAAGTGTGGGA 4180
Db 1 CTGGTCTGAACTCTTGACCTCGGCGTATCCACCCAGCTCAGCCTCCCAAGTGTGGGA 60

RESULT 15
PCT-US95-17111A-60
Sequence 60, Application PC/TUS951711A
GENERAL INFORMATION:
APPLICANT: de la Monte, Suzanne
APPLICANT: Wands, Jack R.
TITLE OF INVENTION: Neutral Thread Protein Gene Expression and
TITLE OF INVENTION: Detection of Alzheimer's Disease
NUMBER OF SEQUENCES: 121
CORRESPONDENCE ADDRESS:
ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C.
STREET: 1100 New York Avenue, Suite 600
CITY: Washington
STATE: D.C.
COUNTRY: U.S.A.
ZIP: 20005-3934
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/17111A
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/340,426
FILING DATE: 14-NOV-1994
ATTORNEY/AGENT INFORMATION:
NAME: Ludwig, Steven R.
REGISTRATION NUMBER: 36,203
REFERENCE/DOCKET NUMBER: 0609.3840002
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 371-2600
TELEFAX: (202) 371-2540
INFORMATION FOR SEQ ID NO: 60:
SEQUENCE CHARACTERISTICS:
LENGTH: 60 base pairs
TYPE: nucleic acid

STRANDEDNESS: both
TOPOLOGY: both
PCT-US95-17111A-60

Query Match
Best Local Similarity 91.7%; Score 52; DB 5; Length 60;
Matches 55; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

Qy 4121 CTGGTCTGAACTCTTGACCTCGGCGTATCCACCCAGCTCAGCCTCCCAAGTGTGGGA 4180
Db 1 CTGGTCTGAACTCTTGACCTCGGCGTATCCACCCAGCTCAGCCTCCCAAGTGTGGGA 60

Search completed: January 4, 2003, 17:59:29
Job time : 144 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 16:24:06 ; Search time 182 Seconds
(without alignments)
15855.326 Million cell updates/sec

Title: US-10-006-366-3
Perfect score: 6672
Sequence: 1 ccccccaactgtgtactgtt.....tactttgttccacttgt 6672

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 381593 seqs, 216252194 residues
Total number of hits satisfying chosen parameters: 227076

Minimum DB seq length: 0
Maximum DB seq length: 99

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Published_Applications_NA:*
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2: /cgn2_6/ptodata/1/pubpna/PCY_NEW_PUB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
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5: /cgn2_6/ptodata/1/pubpna/US08_NEW_PUB.seq:*
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11: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
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13: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
14: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	80.4	1.2	98	10	US-09-764-860-818
2	80.4	1.2	98	10	US-09-764-860-819
3	75.8	1.1	95	9	US-09-764-868-1444
4	75.6	1.1	98	10	US-09-764-847-1866
5	75.6	1.1	98	10	US-09-764-847-1867
6	73.6	1.1	96	10	US-09-761-288-47
7	72	1.1	96	10	US-09-764-860-682
8	70.6	1.1	93	10	US-09-864-761-25274
9	69.8	1.0	98	10	US-09-736-969A-5
10	69.4	1.0	99	10	US-09-764-877-3656
11	68.2	1.0	90	9	US-09-764-904-79
12	68.2	1.0	90	9	US-09-764-904-80
13	68.2	1.0	90	9	US-09-764-904-81
14	68.2	1.0	90	10	US-09-764-860-607
15	68.2	1.0	90	10	US-09-764-860-608
16	68.2	1.0	90	10	US-09-764-860-609
17	67.6	1.0	98	10	US-09-764-869-1767
18	67.2	1.0	88	10	US-09-764-869-1992
19	67.2	1.0	88	10	US-09-764-869-1993

20	65.6	1.0	88	10	US-09-764-869-1719	Sequence 1719, Ap
21	65.4	1.0	84	10	US-09-764-869-1281	Sequence 1281, Ap
22	65.2	1.0	86	10	US-09-764-860-642	Sequence 642, Ap
23	65.2	1.0	86	10	US-09-764-860-643	Sequence 643, Ap
24	64.8	1.0	84	10	US-09-764-860-1052	Sequence 1052, Ap
25	64.8	1.0	84	10	US-09-764-860-1053	Sequence 1053, Ap
26	64.6	1.0	96	10	US-09-764-887-554	Sequence 554, Ap
27	64.6	1.0	99	10	US-09-764-860-836	Sequence 836, Ap
28	64	1.0	92	10	US-09-764-877-3857	Sequence 3857, Ap
29	63.2	0.9	89	10	US-09-764-855-329	Sequence 329, Ap
30	62.8	0.9	94	10	US-09-761-288-41	Sequence 41, Ap
31	62.8	0.9	94	10	US-09-761-288-48	Sequence 48, Ap
32	62.8	0.9	97	10	US-09-764-887-559	Sequence 559, Ap
33	62.8	0.9	98	10	US-09-764-869-2198	Sequence 2198, Ap
34	61.8	0.9	87	10	US-09-764-860-962	Sequence 962, Ap
35	61.6	0.9	85	10	US-09-764-847-1154	Sequence 1154, Ap
36	61.6	0.9	87	10	US-09-764-847-1896	Sequence 1896, Ap
37	61.6	0.9	88	10	US-09-764-877-3190	Sequence 3190, Ap
38	61.4	0.9	92	10	US-09-761-288-33	Sequence 33, Ap
39	60.6	0.9	84	10	US-09-764-869-2102	Sequence 2102, Ap
40	60.6	0.9	84	10	US-09-764-869-2105	Sequence 2105, Ap
41	60.2	0.9	87	10	US-09-764-877-3775	Sequence 3775, Ap
42	60	0.9	88	10	US-09-764-869-1665	Sequence 1665, Ap
43	60	0.9	88	10	US-09-764-869-1666	Sequence 1666, Ap
44	60	0.9	88	10	US-09-764-877-2593	Sequence 2593, Ap
45	60	0.9	91	10	US-09-764-878-204	Sequence 204, Ap

ALIGNMENTS

RESULT 1
US-09-764-860-818
Sequence 818, Application US/09764860
Patent No. US20020094953A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PC008
CURRENT APPLICATION NUMBER: US/09/764, 860
CURRENT FILING DATE: 2001-01-17
Prior application data removed - consult PALM or file wrapper
NUMBER OF SEQ ID NOS: 1198
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 818
LENGTH: 98
TYPE: DNA
ORGANISM: Homo sapiens
US-09-764-860-818

Query Match 1.2% Score 80.4; DB 10; Length 98;
Best Local Similarity 88.8%; Pred. No. 9.1e-06;
Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 4090 GTAGAGACAGGTTTGGCGTGTGGCCGCGCTGCTCGAAGCTTGTGACCTGGGTGAT 4149
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Db 1 GTAGAGAGGGGTTTACACATGTTGGCCAGCGATGTCGAACTCTGACCTGAGGTGAT 60
QY 4150 CCACCCACCTCAGCCTCCCAAGTGTGGATTCAG 4187
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Db 61 CCACCTGCTCAGCCTCCCAAGTGTGGATTCAG 98

RESULT 2
US-09-764-860-819
Sequence 819, Application US/09764860
Patent No. US20020094953A1
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PC008
CURRENT APPLICATION NUMBER: US/09/764, 860
CURRENT FILING DATE: 2001-01-17


```

? APPLICANT: Lu, Peter
? APPLICANT: Garmann, Jonathan David
? APPLICANT: Candia III, Albert Frederick
? APPLICANT: Arbor Vita Corporation
? TITLE OF INVENTION: CLASP-4 Transmembrane Protein
? FILE REFERENCE: 020054-000411US
? CURRENT APPLICATION NUMBER: US/09/736,969A
? CURRENT FILING DATE: 2000-12-13
? PRIOR APPLICATION NUMBER: US 60/160,860
? PRIOR FILING DATE: 1999-10-21
? PRIOR APPLICATION NUMBER: US 60/162,498
? PRIOR FILING DATE: 1999-10-29
? PRIOR APPLICATION NUMBER: US 60/170,453
? PRIOR FILING DATE: 1999-12-13
? PRIOR APPLICATION NUMBER: US 60/176,195
? PRIOR FILING DATE: 2000-01-14
? PRIOR APPLICATION NUMBER: US 60/182,296
? PRIOR FILING DATE: 2000-02-14
? PRIOR APPLICATION NUMBER: US 09/547,276
? PRIOR FILING DATE: 2000-04-11
? PRIOR APPLICATION NUMBER: US 60/196,267
? PRIOR FILING DATE: 2000-04-11
? PRIOR APPLICATION NUMBER: US 60/196,460
? PRIOR FILING DATE: 2000-04-11
? PRIOR APPLICATION NUMBER: US 60/196,527
? PRIOR FILING DATE: 2000-04-11
? PRIOR APPLICATION NUMBER: US 60/196,528
? PRIOR FILING DATE: 2000-04-11
? PRIOR APPLICATION NUMBER: US 09/687,837
? PRIOR FILING DATE: 2000-10-13
? PRIOR APPLICATION NUMBER: US 60/240,503
? PRIOR FILING DATE: 2000-10-13
? PRIOR APPLICATION NUMBER: US 60/240,508
? PRIOR FILING DATE: 2000-10-13
? PRIOR APPLICATION NUMBER: US 60/240,539
? PRIOR FILING DATE: 2000-10-13
? PRIOR APPLICATION NUMBER: US 60/240,543
? PRIOR FILING DATE: 2000-10-13
? NUMBER OF SEQ ID NOS: 153
? SOFTWARE: PatentIn Ver. 2.1
? SEQ ID NO 5
? LENGTH: 98
? TYPE: DNA
? ORGANISM: Homo sapiens
? FEATURE:
? OTHER INFORMATION: isoform 1 insertion
US-09-736-969A-5

Query Match 1.0%; Score 69.8; DB 10; Length 98;
Best Local Similarity 82.5%; Pred. No. 0.00063;
Matches 80; Conservative 0; Mismatches 17; Indels 0; Gaps 0

Qy 3957 TGGCGTGCAGTGTGGATCTGGGTCTACTGCAACCTCCGCTTGGGTTCAAGGATT 4016
      ||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 2 TGGAGTGTGCGATCCAGCATCTGCGCTCGCTACAACTCTCCCGGTTCAAGTATT 61
      || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

Qy 4017 CTTTGTCTACAGCTCCGAGTAGCTGGAGCTGGACATCAAG 4053
      || ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 62 CTCCTGCTCAGCCTCTCTGAGTAGCTGGAGTGTAGG 98

RESULT 10
US-09-764-877-3656/c
? Sequence 3656, Application US/09764877
? Patent No. US20020147140A1
? GENERAL INFORMATION:
? APPLICANT: Rosen et al.
? TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
? FILE REFERENCE: PC005
? CURRENT APPLICATION NUMBER: US/09/764,877
? CURRENT FILING DATE: 2001-01-17
? Prior application data removed - refer to PALM or file wrapper
? NUMBER OF SEQ ID NOS: 4031

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; SOFTWARE:PatentIn Ver. 2.0
; SEQ ID NO 3656
; LENGTH: 99
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-877-3656

Query Match          1.0%; Score 69.4; DB 10; Length 99;
Best Local Similarly 87.4%; Pred. No. 0.00074;
Matches 76; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 3945 TGTGGCCCAAGGCTGGCGTCAAGTGTCGCATCTGGCTTCACTGCAACCTCGGCTTTGG 4004
Db      87 TGTACCCAGCGTGAATGCAATGATGCGCATCTGGCGTCAATGCAACCTCGGCTTCCGG 28

QY 4005 GTTCAAGCATTTCTTCTTGGCTTAGCCT 4031
Db      27 GTTCAAGCATTTCTTCTTGGCTTAGCCT 1

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RESULT 11
US-09-764-904-79/C
; Sequence 79, Application US/09764904
; Patent No. US20020173454A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA122
; CURRENT APPLICATION NUMBER: US/09/764,904
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 79
; LENGTH: 90
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-904-79

Query Match          1.0%; Score 68.2; DB 9; Length 90;
Best Local Similarity 85.4%; Pred. No. 0.0012;
Matches 76; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

OY 4083 ATTTTGGTAGACACAGGGCTTTGGCGGTGGCGGGCTGCTCGACCTTGTGACCTC 4142
      ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 89 ATTTTAGTAGAGACAGGGTTTCCACCACTGTTGGCCAGGCTGTCTGCACTCTGACCTC 30
OY 4143 GGGTGATCCACCCAGCTCAGCTCCCAAA 4171
      ||||| || ||||| ||||| |||||
Db 29 AAGTGATCTGCCTGCCTCGGCTCCCAAA 1

RESULT 12
US-09-764-904-80/C
; Sequence 80, Application US/09764904
; Patent No. US20020173454A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
; FILE REFERENCE: PA122
; CURRENT APPLICATION NUMBER: US/09/764,904
; CURRENT FILING DATE: 2001-01-17
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 80
; LENGTH: 90
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-764-904-80

Query Match          1.0%; Score 68.2; DB 9; Length 90;
Best Local Similarity 85.4%; Pred. No. 0.0012;

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Matches 76; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 4083 ATTTTGTAGAGACAGGGTTTGGCCGGGCTGTCTCGAAGCTTGACCTC 4142

DB 89 ATTTTGTAGAGACAGGGTTTGGCCGGGCTGTCTCGAAGCTTGACCTC 30

QY 4143 GGGTATCCACCCAGCTTCCCAAA 4171

DB 29 AAGTATCTGCTGCTGGCTCCCAAA 1

RESULT 13

US-09-764-904-81/c

; Sequence 81, Application US/09764904

; Patent No. US20020173454A1

; GENERAL INFORMATION:

; APPLICANT: Rosen et al.

; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

; FILE REFERENCE: PA122

; CURRENT APPLICATION NUMBER: US/09/764,904

; CURRENT FILING DATE: 2001-01-17

; Prior application data removed - consult PALM or file wrapper

; NUMBER OF SEQ ID NOS: 137

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 81

; LENGTH: 90

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-764-904-81

Query Match 1.0%; Score 68.2; DB 9; Length 90;

Best Local Similarity 85.4%; Pred. No. 0.0012;

Matches 76; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 4083 ATTTTGTAGAGACAGGGTTTGGCCGGGCTGTCTCGAAGCTTGACCTC 4142

DB 89 ATTTTGTAGAGACAGGGTTTGGCCGGGCTGTCTCGAAGCTTGACCTC 30

QY 4143 GGGTATCCACCCAGCTTCCCAAA 4171

DB 29 AAGTATCTGCTGCTGGCTCCCAAA 1

RESULT 14

US-09-764-860-607/c

; Sequence 607, Application US/09764860

; Patent No. US20020094953A1

; GENERAL INFORMATION:

; APPLICANT: Rosen et al.

; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

; FILE REFERENCE: PC008

; CURRENT APPLICATION NUMBER: US/09/764,860

; CURRENT FILING DATE: 2001-01-17

; Prior application data removed - consult PALM or file wrapper

; NUMBER OF SEQ ID NOS: 1198

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 607

; LENGTH: 90

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-764-860-607

Query Match 1.0%; Score 68.2; DB 10; Length 90;

Best Local Similarity 85.4%; Pred. No. 0.0012;

Matches 76; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

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DB 89 ATTTTGTAGAGACAGGGTTTGGCCGGGCTGTCTCGAAGCTTGACCTC 30

QY 4143 GGGTATCCACCCAGCTTCCCAAA 4171

DB 29 AAGTATCTGCTGCTGGCTCCCAAA 1

RESULT 15

US-09-764-860-608/c

; Sequence 608, Application US/09764860

; Patent No. US20020094953A1

; GENERAL INFORMATION:

; APPLICANT: Rosen et al.

; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies

; FILE REFERENCE: PC008

; CURRENT APPLICATION NUMBER: US/09/764,860

; CURRENT FILING DATE: 2001-01-17

; Prior application data removed - consult PALM or file wrapper

; NUMBER OF SEQ ID NOS: 1198

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 608

; LENGTH: 90

; TYPE: DNA

; ORGANISM: Homo sapiens

US-09-764-860-608

Query Match 1.0%; Score 68.2; DB 10; Length 90;

Best Local Similarity 85.4%; Pred. No. 0.0012;

Matches 76; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 4083 ATTTTGTAGAGACAGGGTTTGGCCGGGCTGTCTCGAAGCTTGACCTC 4142

DB 89 ATTTTGTAGAGACAGGGTTTGGCCGGGCTGTCTCGAAGCTTGACCTC 30

QY 4143 GGGTATCCACCCAGCTTCCCAAA 4171

DB 29 AAGTATCTGCTGCTGGCTCCCAAA 1

Search completed: January 4, 2003, 20:35:39

Job time : 192 secs

GenCore version 5.1.3
Copyright (c) 1993 - 2003 CompuGen Ltd.

OK nucleic - nucleic search, using sw model

Run on: January 4, 2003, 13:04:31 ; Search time 11004 Seconds

(without alignments)
17645.758 Million cell updates/sec

Title: US-10-006-366-3

Perfect score: 6672
Sequence: 1 cctccacacggtgactggt.....tactttgttaccctgt 6672

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 992750

Minimum DB seq length: 0
Maximum DB seq length: 99

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

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2: gb_hcg:*
3: gb_in:*
4: gb_com:*
5: gb_ov:*
6: gb_pal:*
7: gb_ph:*
8: gb_pl:*
9: gb_pr:*
10: gb_ro:*
11: gb_sy:*
12: gb_un:*
13: gb_vl:*
14: gb_vl:*
15: em_ba:*
16: em_fun:*
17: em_hum:*
18: em_in:*
19: em_mu:*
20: em_om:*
21: em_or:*
22: em_ov:*
23: em_pat:*
24: em_ph:*
25: em_pl:*
26: em_ro:*
27: em_sts:*
28: em_un:*
29: em_vl:*
30: em_hcg_hum:*
31: em_hcg_inv:*
32: em_hcg_other:*
33: em_hcg_mus:*
34: em_hcg_pln:*
35: em_hcg_rod:*
36: em_hcg_mam:*
37: em_hcg_vit:*
38: em_sy:*
39: em_higo_hum:*
40: em_higo_mus:*
41: em_higo_other:*

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	73.6	1.1	96	6	AX197482	AX197482 Sequence
2	69.8	1.0	98	6	AX173026	AX173026 Sequence
3	67.4	1.0	97	9	HUMMDLRA1	M14178 Human low d
4	67.4	1.0	97	9	HUMMDLRA2	M14180 Human low d
5	67	1.0	97	6	AR194771	AR194771 Sequence
6	66	1.0	97	9	HUMMDLRAJ	M14179 Human family
7	65.6	1.0	90	9	HUMMDLRAJ	M15365 Human low d
8	65.4	1.0	75	6	AR194770	AR194770 Sequence
9	64	1.0	90	9	HUMMDLRAJ	K03555 Human low d
10	63	0.9	91	11	HUMMDLRAJ	L30244 Human STS U
11	62.8	0.9	94	6	AX197476	AX197476 Sequence
12	62.8	0.9	94	6	AX197483	AX197483 Sequence
13	62.6	0.9	94	9	HUMMDLRAJ	M13479 Human alpha
14	62.4	0.9	80	9	HUMMDLRAJ	M36135 Human alpha
15	61.6	0.9	79	9	S73203	S73203 AL1-1 (tand
16	61.4	0.9	92	6	AX197468	AX197468 Sequence
17	61.4	0.9	95	9	HSTHPRK1B	X66361 H.sepiens m
18	60.4	0.9	81	6	AX322271	AX322271 Sequence
19	60.2	0.9	98	11	G33095	G33095 EYR13C9R H
20	60	0.9	76	9	AF032275	AF032275 Eulemur m
21	60	0.9	76	9	AF032278	AF032278 Eulemur m
22	60	0.9	91	11	HUMMDLRAJ	L30244 Human STS U
23	59.8	0.9	92	6	AX197472	AX197472 Sequence
24	59.6	0.9	75	9	AF032334	AF032334 Propithec
25	58.8	0.9	90	9	HUMMDLRAJ	K03556 Human low d
26	58.6	0.9	99	11	HUMMDLRAJ	L30306 Human STS U
27	58	0.9	94	6	AX197487	AX197487 Sequence
28	57.8	0.9	95	11	HUMMDLRAJ	L30176 Human STS U
29	56.8	0.9	76	9	AF032234	AF032234 Orolemur
30	56.8	0.9	76	9	AF032261	AF032261 Eulemur m
31	56.8	0.9	76	9	AF032287	AF032287 Eulemur m
32	56.8	0.9	76	9	AF032288	AF032288 Lemur sp.
33	56.6	0.8	84	6	AR051521	AR051521 Sequence
34	56.6	0.8	84	6	AR072661	AR072661 Sequence
35	56.6	0.8	84	6	AR072661	AR072661 Sequence
36	56.6	0.8	84	6	AR072661	AR072661 Sequence
37	56.4	0.8	84	6	AX322350	AX322350 Sequence
38	56.4	0.8	95	5	GGRE10H7	X78616 G.gallus ge
39	56	0.8	88	6	AR091691	AR091691 Sequence
40	55.8	0.8	88	6	AR091692	AR091692 Sequence
41	55.8	0.8	75	9	AF032305	AF032305 Propithec
42	55.8	0.8	75	9	AF032320	AF032320 Propithec
43	55.8	0.8	75	9	AF032338	AF032338 Propithec
44	55.4	0.8	82	9	AF032276	AF032276 Lemur sp.
45	55.2	0.8	76	9	HUMMDLRAJ	L36843 Homo sapien
					AF032260	Lemur sp.

ALIGNMENTS

RESULT 1
AX197482/c
LOCUS AX197482 96 bp DNA linear PAT 29-AUG-2001
DEFINITION Sequence 47 from Patent WO0151632.
ACCESSION AX197482
VERSION AX197482.1 GI:15387845
KEYWORDS
SOURCE
ORGANISM human.
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 (bases 1 to 96)
Padigaru,M., Prayaga,S.K., Taupier,R.J., Mishra,V., Tchernev,V.T.,
Spytek,K.A. and Li,L.
Odorant receptor polypeptides and nucleic acids encoding same

Pred. No. is the number of results predicted by chance to have a

JOURNAL	Patent: WO 0151632-A 47 19-JUL-2001;										
FEATURES	Curagen Corporation (US)										
SOURCE	Location/Qualifiers										
	1.	96									
	/organism="Homo sapiens"										
	/db_xref="taxon:9606"										
BASE COUNT	19	a	26	c	34	g	17	t			
ORIGIN											
Query Match	1.1%; Score 73.6; DB 6; Length 96;										
Best Local Similarity	85.4%; Pred. No. 9.1e-06;										
Matches	82;	Conservative	0;	Mismatches	14;	Indels	0;	Gaps	0;		
QY	5192	GTGGCCAGGCGAGCTTGAACCTCTGGGCGCTCAAGGATTCTCGGCCACAGCTCCCAA	5251								
Db	96	GTTGACAGGCGTGTCTGGAACCTCTGAACCTATATGTAGATCCGCCCGCTCGGCTCCCAA	37								
OY	5252	AGTGTGGGATTACAGGCTGCAACCAACCAACCAACCCAG	5287								
Db	36	AGTGTGGGATTACAGGCTGTGAGCCACCAACCAACCCAG	1								

RESULT 2			
AXI73026			
LOCUS	AXI73026	98 bp	DNA
DEFINITION	Sequence 5 from Patent WO0142294.		linear
ACCESSION	AXI73026		
VERSION	AXI73026.1	GI:14597977	PAT 03-JUL-2001

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
AUTHORS Lu, P., Garman, J.D. and Candia, A.F.
TITLE Clasp-4, a transmembrane protein
JOURNAL Patent: WO 0142294-A 5 14-JUN-2001;
Arbor Vita Corporation (US)

source	
1. 98	/organism="Homo sapiens"
	/db_xref="taxon:9606"
	/note="isoform 1 insertion"
BASE COUNT	15 a 29 c 28 g 26 t
ORIGIN	

Query Match	1.0%;	Score 69.8;	DB 6;	Length 98;
Best Local Similarity	82.5%;	Pred. No. 6.5e-05;		
Matches 80;	Conservative 0;	Mismatches 17;	Indels 0;	Gaps .0

OY	3957	TGCGGTGCAGATGGTGGAACTGGGTTAACTGCAACTCCGCCCTTGAGGTTCAACGATT	4018
Db	2	TGAGATGCAGTAGCAGGAACTCGCCCTCGTAACAACCTTCGCTCCCGGGATCAAGTGAAT	61
OY	4017	CCTTCGCTCACGCGTCCGACAGTACCTGGGACTACACAG	4053
Db	62	CTCTCTGACTGAGCTCTCTAGTAGCTGGGATGTGAGG	98

RESULT 3	HUMIDLRAL	LOCUS	HUMIDLRAL	97 bp	DNA	linear	PRI 07-JAN-1995
DEFINITION	Human low density lipoprotein receptor gene, intron 4 (partial).	ACCESSION	M14178				
VERSION	M14178.1	GI:187097					
KEYWORDS	low density lipoprotein receptor-1.						
SEGMENT	1 of 2						
SOURCE	Human white blood cell DNA.						
ORGANISM	Homo sapiens						

REFERENCE
AUTHORS
1 (bases 1 to 97)
Hobbs, H.H., Brown, M.S., Goldstein, J.L. and Russell, D.W.

TITLE	JOURNAL	MEDLINE	PUBMED	COMMENT	FEATURES	SOURCE
Deletion of exon encoding cysteine-rich repeat of low density lipoprotein receptor alters its binding specificity in a subject with familial hypercholesterolemia	J. Biol. Chem.	261 (28), 13114-13120 (1986)	87008518			
Analysis of the LDL-receptor gene of a patient with familial hypercholesterolemia (FH) revealed the deletion of exon 5 resulting from a homologous recombination between repetitive Alu sequences of intron 4 and intron 5.			3020025			
Location/Qualifiers						1 97

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misc_feature
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/gene="tryp"

intron
19p13.3
<1..>97
/gene="LDLR"
/note="LDL-receptor intron D; G00-119-362"

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	/note=variation target sequence			
BASE COUNT	18 a	34 c	26 g	19 t
ORIGIN	Chromosome 19.			

Query Match	1.0%;	Score 67.4;	DB 9;	Length 97;
Best Local Similarity	82.8%;	Pred. No. 0	00022;	
Matches 77;	Conservative 0;	Mismatches 16;	Indels 0;	Gaps 0;

[illegible]

LOCUS	HMLDLRA2	97 bp	DNA	linear	PRI 07-JAN-1995
DEFINITION	Human low density lipoprotein receptor gene (LDLR), Intron 5 (partial).				
ACCESSION	M4180				
VERSION	M4180.1	GI:187098			
KEYWORDS	low density lipoprotein receptor-1.				

ORGANISM	REFERENCE
<i>Homo sapiens</i>	1 (bases 1 to 97)
<i>Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.</i>	
<i>Hobbs, H.H.; Brown, M.S.; Goldstein, J.L. and Russell, D.W.</i>	
Deletion of exon encoding cysteine-rich repeat of low density lipoprotein receptor alters its binding specificity in a subject with familial hypercholesterolemia	
<i>J. Biol. Chem.</i> 261 (28), 13114-13120 (1986)	
JOURNAL MEDLINE	87008518

COMMENT
Analysis of the LDL-receptor gene of a patient with familial hypercholesterolemia (FH) revealed the deletion of exon 5 resulting from a homologous recombination between repetitive Alu sequences of intron 4 and intron 5.

FEATURES

source

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gene      join(M14178.1:1. .97,1. .97)
          /gene="LDLR"
intron    <1. .>97

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misc_feature	42. .72	/proc/lsn inclusion E, 500-119-502
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/gene="LDLR"
/note="deletion target sequence"
BASE COUNT      19 a      34 c      25 g      19 t
ORIGIN           Chromosome 19p13.2-p13.1.

Query Match
Best Local Similarity 82.8%; Pred. No. 0.00022;
Matches 77; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

QY 5193 TTGGCCAGGAGCTTGACCTCTGCGCTCAAGTATTTCTGCTCAGCTCCCAAA 5252
      ||||||| ||||| ||||||| ||||| ||||| ||||||| |||||||
Db 2 TTGGCCAGGAGCTTGACCTCTGCGCTCAAGTATTTCTGCTCAGCTCCCAAA 61
      ||||||| ||||| ||||||| ||||| ||||| ||||||| |||||||

QY 5253 GTGCTGGATTACAGTGTGACACACACACACC 5285
      ||||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 62 GTGCTGGATTACAGTGTGACACACACACACC 94
      ||||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 5
LOCUS           AR194771 75 bp DNA linear PAT 20-APR-2002
DEFINITION      Sequence 15 from patent US 6348596.
ACCESSION       AR194771
VERSION         AR194771.1 GI:20241363
KEYWORDS
SOURCE           Unknown.
ORGANISM         Unknown.
REFERENCE        1 (bases 1 to 75)
AUTHORS          Lee, L.G., Graham, R.J., Mullah, K.B. and Haxo, F.T.
TITLE            Non-fluorescent asymmetric cyanine dye compounds useful for
                  quenching reporter dyes
JOURNAL          Patent: US 6348596-A 15 19-FEB-2002;
FEATURES         Location/Qualifiers
                  source          1..75
BASE COUNT      15 a      24 c      18 g      18 t

Query Match
Best Local Similarity 93.3%; Pred. No. 0.00027;
Matches 70; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 5193 TTGGCCAGGAGCTTGACCTCTGCGCTCAAGTATTTCTGCTCAGCTCCCAAA 5252
      ||||||| ||||| ||||||| ||||| ||||| ||||||| |||||||
Db 1 TTGGCCAGGAGCTTGACCTCTGCGCTCAAGTATTTCTGCTCAGCTCCCAAA 60
      ||||||| ||||| ||||||| ||||| ||||| ||||||| |||||||

QY 5253 GTGCTGGATTACAG 5267
      ||||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 61 GTGCTGGATTACAG 75
      ||||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 6
LOCUS           HUMDLRDJ 97 bp DNA linear PRI 27-APR-1993
DEFINITION      Human familial hypercholesterolemia 626-a gene with a deletion of
                  exon 5.
ACCESSION       M14179
VERSION         M14179.1 GI:187101
KEYWORDS        low density lipoprotein receptor-1; very low density lipoprotein.
SOURCE          Human fibroblast DNA, from patient FH-626.
ORGANISM        Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE        1 (bases 1 to 97)
AUTHORS          Hobbs, H.H., Brown, M.S., Goldstein, J.L. and Russell, D.W.
TITLE            Deletion of exon encoding cysteine-rich repeat of low density
                  lipoprotein receptor alters its binding specificity in a subject
                  with familial hypercholesterolemia
JOURNAL          J. Biol. Chem. 261 (28), 13114-13120 (1986)
MEDLINE          87008518
PUBMED          3020025
COMMENT          Analysis of the LDL-receptor gene of a patient with familial

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hypercholesterolemia (FH) revealed the deletion of exon 5 resulting
from a homologous recombination between repetitive Alu sequences of
intron 4 and intron 5.
location/Qualifiers
source          1..97
                /organism="Homo sapiens"
                /db_xref="taxon:9606"
misc_feature    42..72
                /note="deletion target sequence"
BASE COUNT      22 a      34 c      23 g      18 t
ORIGIN           Chromosome 19p13.2-p13.1.

Query Match
Best Local Similarity 83.3%; Pred. No. 0.00046;
Matches 75; Conservative 0; Mismatches 15; Indels 0; Gaps 0;

QY 5196 CCCAGCAGCTTTGACCTCTGCGCTCAAGTATTTCTGCTCAGCTCCCAAA 5255
      ||||||| ||||| ||||||| ||||| ||||| ||||||| |||||||
Db 5 CACAGGCTGCTTTGACCTCTGCGCTCAAGTATTTCTGCTCAGCTCCCAAA 64
      ||||||| ||||| ||||||| ||||| ||||| ||||||| |||||||

QY 5256 CTGGGATTACAGTGTGACACACACACACC 5285
      ||||||| ||||| ||||| ||||| ||||| ||||| |||||
Db 65 CTGGGATTACAGTGTGACACACACACACC 94
      ||||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 7
LOCUS           HUMDLRDM 90 bp DNA linear PRI 11-JAN-1995
DEFINITION      Human low density lipoprotein receptor mutant gene recombination
                  site.
ACCESSION       M15365
VERSION         M15365.1 GI:187107
KEYWORDS        Alu repeat; LDL receptor; cell surface protein; crossover;
                  recombination.
SOURCE          Human (FH 295) fibroblast DNA, clone p295.
ORGANISM        Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE        1 (bases 1 to 90)
AUTHORS          Lehtman, M.A., Goldstein, J.L., Russell, D.W. and Brown, M.S.
TITLE            Duplication of seven exons in LDL receptor gene caused by Alu-Alu
                  recombination in a subject with familial hypercholesterolemia
JOURNAL          Cell 48 (5), 827-835 (1987)
MEDLINE          87131094
PUBMED          3815525
COMMENT          Clean copy of sequence kindly provided by M. Lehtman (22-APR-1987).
                  Individual FH 295 carries two mutant LDL receptor alleles. The
                  allele below was inherited from the father and includes a
                  duplication of exons 2 through 8 that was presumably created by
                  unequal chromosomal crossover involving Alu repeats in introns 1
                  and 8. The exact site of recombination cannot be determined
                  because the sequences of the Alu repeats in introns 1 and 8 of
                  normal alleles are identical over a span of 26 nucleotides at the
                  recombination site.
FEATURES         Location/Qualifiers
                  source          1..90
                /organism="Homo sapiens"
                /db_xref="taxon:9606"
                /map="19p13.3"
                /gene="LDLR"
                /gene="LDLR"
                /gene="LDLR"
                /note="LDLR intron 8; G00-119-362"
                /organism="Homo sapiens"
                /note="LDLR duplicated intron 1 (no splice consensus at
                68); putative; does not fit consensus"
BASE COUNT      18 a      33 c      19 g      20 t
ORIGIN           1 bp upstream of NheI site; chromosome 19p13.2-p13.1.

Query Match

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[illegible]

BASE COUNT	17 a	30 c	24 g	19 t	
CHROMOSOME	19p13.2-p13.1.				
Query Match	1.0%	Score 64:	DB 9:	Length 90:	
Best Local Similarity	83.0%	Pred. No. 0.0013:			
Matches	73: Conservative	0: Mismatches	15: Indels	0: Gaps	
OY	4120	GCTGTCACGAACCTTATCACTCGGGTGATCCACCACCTCAGCTGCCAAGAAGTGTGG	4179		
Db	1	GCTGGTTTCGAACACTCTACTCTCAGTAGTATCTGCCACCACCTGGCCTCCCAAAGTCTGG	60		
OY	4180	ATTACAGCGTGAGCCACTGCACCGGGC	4207		
Db	61	ATTACAGCATGAGCCACCATGCCAGC	88		
RESULT 10	HUMUT8164A/C				
LOCUS	HUMUT8164A	91 bp	DNA	linear STS 29-DEC-1994	
DEFINITION	Human STS UT8164, 5' primer bind, sequence tagged site.				
ACCESSION	L30244				
VERSION	L30244.1 GI:605447				
KEYWORDS	STS; PCR primer; STS sequence; microsatellite DNA; microsatellite marker; sequence tagged site; tetranucleotide repeat.				
SOURCE	Homo sapiens DNA.				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.				
AUTHORS	Getten,S.C., Matsunami,N., Plaetke,R., Albertsen,H., Ballard,L., Wells,R., Lawrence,E., Moore,M., Holik,P.R., Carlson,M., Zhao,X., Robertson,M., Bradley,P., Elsher,T., Tingey,A., Lalouel,J.-M. and White,R.				
TITLE	Genetic and physical mapping of simple sequence repeat containing sequence tagged sites from the human genome				
JOURNAL COMMENT	Unpublished (1994)				
COMMENT	Submitted by: Utah Center for Human Genome Research University of Utah, Dept. of Human Genetics 2160 Eccles Institute of Human Genetics Salt Lake City, UT 84112 e-mail: stecorona.med.utah.edu Primer A: AGAGTTGCAGTACCA Primer B: TTTTCCCCCTCTACTCAT End to Label: Primer B PCR Profile: Initial Denaturation: 94C 30sec Cycles Denaturation Annealing Extension 5 94 C 10 sec. 56 C 10 sec. 72 C 20 sec. 30 52 C 10 sec. 72 C 20 sec. Mg++: 1.50 mM Gel: Acrylamide 7%, Formamide 32%, Urea 34% Alleles: 1. Location/Qualifiers source 1..91 /organism="Homo sapiens" /db_xref="taxon:9606" primer_bind 10..28 /evidence=experimental BASE COUNT 35 a 20 c 23 g 13 t ORIGIN Query Match 0.9%; Score 63; DB 11; Length 91; Best Local Similarity 82.8%; Pred. No. 0.0027; Matches 72: Conservative 0: Mismatches 15: Indels 0: Gaps 0				
OY	3914	TCTTTTTTTTATTTTATTTAGACAGGGTCTCACTTTTGCCACGAGTGGCGTGCAGTGTGGC	3973		
Db	91	TTTTTTTTTTTTTTTGTGACAGAGTCTCACCTCTGTCCACGAGGTGAGTGCAGTGTGTG	32		
OY	3974	ATCTGGTTACATGCACAACCTCCGCGTC	4000		
Db	31	ATCTGGTTACTGCAACCTCTGTGCTC	5		

RESULT 11
AX197476/c 94 bp DNA linear PAT 29-AUG-2001
LOCUS AX197476
DEFINITION Sequence 41 from Patent WO0151632.
ACCESSION AX197476
VERSION AX197476.1 GI:15387843
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 94)
AUTHORS Padigaru,M., Prayaga,S.K., Taupier,R.J., Mishra,V., Tcherenev,V.T.,
Spytek,K.A. and Li,L.
TITLE Odorant receptor polypeptides and nucleic acids encoding same
JOURNAL Patent: WO 0151632-A 41 19-JUL-2001;
Curagen Corporation (US)
FEATURES
source Location/Qualifiers
1..94
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 18 a 26 c 34 g 16 t
ORIGIN
Query Match 0.9%; Score 62.8; DB 6; Length 94;
Best Local Similarity 85.4%; Pred. No. 0.0024;
Matches 82; Conservative 0; Mismatches 12; Indels 2; Gaps 1;
QY 4111 GTGGCGGGCTGCTCCGACCTTGACCTCGGGTGATCCACCCACTAGCCTCCCAA 4170
Db 94 GTTAGCCAGATGCTCGATCTCTGACCTC--ATGATCCACCCGCGCTCGCTCCCAA 37
QY 4171 AGTCTGGATTACAGCGTAGCCACTGCACCGGG 4206
Db 36 AGTCTGGATTACAGCGTAGCCACTGCACCGCGG 1
RESULT 12
AX197483 94 bp DNA linear PAT 29-AUG-2001
LOCUS AX197483
DEFINITION Sequence 48 from Patent WO0151632.
ACCESSION AX197483
VERSION AX197483.1 GI:15387846
KEYWORDS
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 94)
AUTHORS Padigaru,M., Prayaga,S.K., Taupier,R.J., Mishra,V., Tcherenev,V.T.,
Spytek,K.A. and Li,L.
TITLE Odorant receptor polypeptides and nucleic acids encoding same
JOURNAL Patent: WO 0151632-A 48 19-JUL-2001;
Curagen Corporation (US)
FEATURES
source Location/Qualifiers
1..94
/organism="Homo sapiens"
/db_xref="taxon:9606"
BASE COUNT 16 a 34 c 26 g 18 t
ORIGIN
Query Match 0.9%; Score 62.8; DB 6; Length 94;
Best Local Similarity 85.4%; Pred. No. 0.0024;
Matches 82; Conservative 0; Mismatches 12; Indels 2; Gaps 1;
QY 4111 GTGGCGGGCTGCTCCGACCTTGACCTCGGGTGATCCACCCACTAGCCTCCCAA 4170
Db 1 GTTAGCCAGATGCTCGATCTCTGACCTC--ATGATCCACCCGCGCTCGCTCCCAA 58
QY 4171 AGTCTGGATTACAGCGTAGCCACTGCACCGGG 4206
Db 59 AGTCTGGATTACAGCGTAGCCACTGCACCGCGG 94

RESULT 13
HUMHGAL/c 94 bp DNA linear PRI 08-NOV-1994
LOCUS HUMHGAL/c
DEFINITION Human alpha-1-globin gene, 3' flank with an intragenic promoter
split by an Alu repeat.
ACCESSION M13479
VERSION M13479.1 GI:184024
KEYWORDS Alu repeat; alpha-1 globin; hemoglobin.
SOURCE Human DNA.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 94)
AUTHORS Perez-Stable,C. and Shen,C.K.
TITLE Competitive and cooperative functioning of the anterior and
posterior promoter elements of an Alu family repeat
JOURNAL Mol. Cell. Biol. 6 (6), 2041-2052 (1986)
MEDLINE 87064495
PUBMED 3023916
FEATURES
source Location/Qualifiers
1..94
/organism="Homo sapiens"
/db_xref="taxon:9606"
/map="16p13.3"
8..94
/gene="HBA1"
repeat_region 8..>94
/note="Alu repeat; G00-119-293"
BASE COUNT 22 a 23 c 30 g 19 t
ORIGIN
Query Match 0.9%; Score 62.6; DB 9; Length 94;
Best Local Similarity 81.8%; Pred. No. 0.0027;
Matches 72; Conservative 0; Mismatches 16; Indels 0; Gaps 0;
QY 4122 TGCTCTGACCTCTTGACCTCGGGTGATCCACCCACTGACCTCCCAAGTCTGGGAT 4181
Db 94 TGCTCTGACCCCTGACTGATGATCCACCGCTTAACCCCTGCAATGCTGCAT 35
QY 4182 TACAGCGTGAGCCACTGCACCGGCCA 4209
Db 34 TACAGGTGTGAGCCACCGCGCGGCCA 7

RESULT 14
HUMBRFAE 80 bp DNA linear PRI 27-APR-1993
LOCUS HUMBRFAE
DEFINITION Human alpha-galactosidase breakpoint region.
ACCESSION M36135
VERSION M36135.1 GI:179545
KEYWORDS Fabry disease; breakpoint junction; glycosphingolipid catabolism.
SOURCE Human DNA.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 80)
AUTHORS Kornreich,R., Bishop,D.F. and Desnick,R.J.
TITLE Alpha-galactosidase A gene rearrangements causing Fabry disease.
JOURNAL Identification of short direct repeats at breakpoints in an
Alu-rich gene
J. Biol. Chem. 265 (16), 9319-9326 (1990)
MEDLINE 90264427
PUBMED 2160973
FEATURES
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Best Local Similarity 86.2%; Pred. No. 0.003;

GenCore version 5.1.3
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OM nucleic - nucleic search, using sw model

Run on: January 4, 2003, 13:00:00 : Search time 827 Seconds
(without alignments)
18168.480 Million cell updates/sec

Title: US-10-006-366-3

Perfect score: 6672

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Scoring table:

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Searched: 2185239 seqs, 112599159 residues

Total number of hits satisfying chosen parameters: 2387546

Minimum DB seq length: 0

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Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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4	79.6	1.2	99	22	AAK86572	Human immune/haema
5	78.8	1.2	98	22	AAS32628	Human genomic DNA
6	78.8	1.2	98	22	AAK8189	Human digestive sy
7	78.8	1.2	98	22	AAK8190	Human immune/haema
8	77.4	1.2	95	22	AAK85116	Human immune/haema
9	77.2	1.2	98	22	ABA18411	Human nervous syst

C	10	77.2	1.2	98	22	ABA18415	Human nervous syst
C	11	77.2	1.2	98	22	ABA07342	Human pancreatic c
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C	13	77.2	1.2	98	22	AAI04206	Human reproductive
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C	18	77.2	1.2	98	22	AAK76017	Human immune/haema
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C	21	77.2	1.2	99	22	ABA17384	Human nervous syst
C	22	76.8	1.2	97	22	AAK73597	Human immune/haema
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C	24	76.6	1.1	92	22	AAK73570	Human immune/haema
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C	27	75.6	1.1	98	22	AAS32552	Human genomic DNA
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ALIGNMENTS

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DT	07-NOV-2001 (first entry)
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KW	lung disorder; nose disorder; lung cancer; gene therapy; cytostatic;
KW	anti allergic; anti asthmatic; anti inflammatory; olfactory;
KW	respiratory active; ds.
OS	Homo sapiens.
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PN	WO20015448-A1.
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PA	(HUMA-) HUMAN GENOME SCI INC.	
PI	Rosen CA, Barash SC, Ruben SM;	
XX	WPI; 2001-476224/51.	
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PT	Isolated polypeptide for treating, preventing and/ or prognosing	
PT	disorders related to the respiratory system including respiratory	
XX	cancers and also for testing and detection e.g. diagnosis -	
PS	Disclosure; SED ID No 818; 546pp; English.	
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CC	The present invention relates to the isolation of novel human	
CC	respiratory antigens (AAU1765-AAU17975), and cDNA and genomic	
CC	sequences encoding for these polypeptides. The sequences of the	
CC	invention are useful for preventing, treating and/or prognosing	
CC	disorders (e.g. vocal cord paralysis, tonsillitis and laryngitis)	

CC lung disorders e.g. pneumonia, allergic disorders e.g. asthma,
CC pleurisy, cystic fibrosis, emphysema, nose disorders and cancers of
CC the respiratory tissues e.g. lung cancer. The polynucleotide sequences
CC of the invention are useful in gene therapy and antisense therapy.
CC AA528161-AA528764 represent genomic sequences encoding for novel
CC human respiratory antigens.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
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KW lung disorder; nose disorder; lung cancer; gene therapy; cytostatic;
KW anti allergic; anti asthmatic; anti inflammatory; olfactory;
KW respiratory active; ds.
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OS Homo sapiens.
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 PA (HUMA-) HUMAN GENOME SCI INC.
 PT Rosen CA, Barash SC, Ruben SM;
 DR WPI; 2001-476224/51.
 XX

PT Isolated polypeptide for treating, preventing and/or prognosing
 PT disorders related to the respiratory system including respiratory
 PT cancers and also for testing and detection e.g. diagnosis -
 PS
 PS Disclosure; SED ID No 819; 546pp; English.

XX The present invention relates to the isolation of novel human
 CC respiratory antigens (AAU17685-AAU17975), and cDNA and genomic
 CC sequences encoding for these polypeptides. The sequences of the
 CC invention are useful for preventing, treating and/or prognosing
 CC disorders related to the respiratory system including throat
 CC disorders (e.g. vocal cord paralysis, tonsillitis, and laryngitis),
 CC lung disorders e.g. pneumonia, allergic disorders e.g. asthma,
 CC pleurisy, cystic fibrosis, emphysema, nose disorders and cancers of
 CC the respiratory tissues e.g. lung cancer. The polynucleotide sequences
 CC of the invention are useful in gene therapy and antisense therapy.
 CC AAS28161-AAS28764 represent genomic sequences encoding for novel
 CC human respiratory antigens.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pcl_sequences.
 CC

XX Sequence 98 BP; 20 A; 29 C; 27 G; 22 T; 0 other;
 SQ

Query Match 1.2%; Score 80.4; DB 22; Length 98;
 Best Local Similarity 88.8%; Pred. No. 1.5e-06;
 Matches 87; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 4090 GTAGACACAGGGTTTTCGCGGTGGCGGCGTCTGCACTCTTGACCTCGGGTAT 4149
 Db 1 GTAGACACGGGGTTTTCACCATGTGGCCAGCGCTGATCTGAACTCTGACCTCAGGTGAT 60
 QY 4150 CCACCCACCTCAGCCTCCCAAGTGGTGGATTACAG 4187
 Db 61 CCACCTGCTCAGCCTCCCAAGTGGTGGATTACAG 98
 RESULT 3
 AAK86580
 ID AAK86580 standard; DNA; 99 BP.
 AC AAK86580;
 DT 07-NOV-2001 (first entry)
 XX
 DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:41392.
 XX Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
 KW cytosolic; gene therapy; vaccine; metastasis; ds.
 OS Homo sapiens.
 PN WC200157182-A2.
 XX 09-AUG-2001.
 PD
 XX 17-JAN-2001; 2001WO-US01354.
 XX
 XX 31-JAN-2000; 2000US-0179065.
 PR 04-FEB-2000; 2000US-0180628.
 PR 24-FEB-2000; 2000US-0184664.
 PR 02-MAR-2000; 2000US-0186350.
 PR 16-MAR-2000; 2000US-0189874.
 PR 17-MAR-2000; 2000US-0190076.
 PR 18-APR-2000; 2000US-0198123.
 PR 19-MAY-2000; 2000US-0205515.
 PR 07-JUN-2000; 2000US-0209467.
 PR 28-JUN-2000; 2000US-0214886.
 PR 30-JUN-2000; 2000US-0215135.
 PR 07-JUL-2000; 2000US-0216647.
 PR 07-JUL-2000; 2000US-0216880.
 PR 11-JUL-2000; 2000US-0217487.
 PR 11-JUL-2000; 2000US-0217496.
 PR 14-JUL-2000; 2000US-0218290.
 PR 26-JUL-2000; 2000US-0220963.
 PR 26-JUL-2000; 2000US-0220964.
 PR 14-AUG-2000; 2000US-0224518.
 PR 14-AUG-2000; 2000US-0224519.
 PR 14-AUG-2000; 2000US-0225213.
 PR 14-AUG-2000; 2000US-0225214.
 PR 14-AUG-2000; 2000US-0225266.
 PR 14-AUG-2000; 2000US-0225267.
 PR 14-AUG-2000; 2000US-0225268.
 PR 14-AUG-2000; 2000US-0225270.
 PR 14-AUG-2000; 2000US-0225447.
 PR 14-AUG-2000; 2000US-0225757.
 PR 14-AUG-2000; 2000US-0225758.
 PR 14-AUG-2000; 2000US-0225759.
 PR 14-AUG-2000; 2000US-0226279.
 PR 18-AUG-2000; 2000US-0226681.
 PR 22-AUG-2000; 2000US-0226868.
 PR 22-AUG-2000; 2000US-0227182.
 PR 23-AUG-2000; 2000US-0227009.
 PR 30-AUG-2000; 2000US-0228924.
 PR 01-SEP-2000; 2000US-0229287.
 PR 01-SEP-2000; 2000US-0229343.
 PR 01-SEP-2000; 2000US-0229344.
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 PR 05-SEP-2000; 2000US-0229503.
 PR 05-SEP-2000; 2000US-0229519.
 PR 06-SEP-2000; 2000US-0230437.

PR	17-NOV-2000;	2000US-02A9344.
PR	17-NOV-2000;	2000US-02A9245.
PR	17-NOV-2000;	2000US-02A9265.
PR	17-NOV-2000;	2000US-02A9264.
PR	17-NOV-2000;	2000US-02A9265.
PR	17-NOV-2000;	2000US-02A9297.
PR	17-NOV-2000;	2000US-02A9299.
PR	01-DEC-2000;	2000US-02A9300.
PR	01-DEC-2000;	2000US-0250391.
PR	03-DEC-2000;	2000US-0251030.
PR	05-DEC-2000;	2000US-0251988.
PR	06-DEC-2000;	2000US-0256719.
PR	08-DEC-2000;	2000US-0251479.
PR	08-DEC-2000;	2000US-0251856.
PR	08-DEC-2000;	2000US-0251868.
PR	08-DEC-2000;	2000US-0251869.
PR	08-DEC-2000;	2000US-0251989.
PR	11-DEC-2000;	2000US-025F059.
PR	05-JAN-2001;	2001US-0253678.
PR		
XX		

Nucleic acids encoding human factor XIIIa

useful for preventing, diagnosing and/or treating cancers and metastasis -

Direct course of action

sequence Listing; English.

amino acid sequences given in AAM82170 to AAM01031 (21) encode the human immune/haematopoietic antigen (I)

proteins and polynucleotides may be used in gene therapy and vaccine production. (I)

example, they may be used to identify the prevention, diagnosis and treatment of diseases associated with inappropriate (I) expression. For

expression by rectifying mutations or deletions in a patient's genome that affect the expression of the gene.

supplement the patients own production of (I). Additionally, (I)

the nucleic acids into a host cell and culturing the cell.

(1) proteins and polynucleotides may be used to prevent, diagnose and treat immune/hematopoietic diseases.

cellular and cancer metastases of haematopoietic-derived cells. AAK64703 to AAK87694 represent human

sequences from the present invention. AAK54942 to AAK54950 and AAM82769

...the exemplification of the present invention.

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1

Local Similarity	1.28;	Score 80.4;	DB 22;	Length 99;
Local Similarity	88.88;	Pred NO. 1	100	

8 /;	Conservative	0;	Mismatches	11;	Indels	0;	Gaps	0
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4099 GGGTTTTCCTGTTGGCCGGGCTGGTCTGAACTCTGACCTCGGGTGATCCACCCACC 4158

2 GGATTTCGCCATGTTGCCAGGCTGCTCGAACTCCTGACCTGAGTGATACCCCTGG 41

159 TCAGCCTCCCAAGTGCTGGGATTACAAGCGTGA GCA 4195

62 TCAGCCTCCCAAGTGGATTACACCGCTACCGCG 66

472

AK86572 standard; DNA; 99 BP.

AK86572;

7-NOV-2001 (first entry)

1

XX DE Human immune/haematopoietic antigen genomic sequence SEQ ID NO:41384.
XX DE Human: immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX DE cytostatic; gene therapy; vaccine; metastasis; ds.
XX OS Homo sapiens.
XX PN W0200157182-A2.
XX PD 09-AUG-2001.
XX PF 17-JAN-2001; 2001WO-US01354.
XX 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
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PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
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PR 30-JUN-2000; 2000US-0215135.
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PR 22-AUG-2000; 2000US-0226681.
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PR 06-SEP-2000; 2000US-0230438.
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PR 20-OCT-2000; 2000US-0241786.
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PR 01-NOV-2000; 2000US-0244617.
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PR 08-NOV-2000; 2000US-0246476.
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PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
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PR 17-NOV-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250391.
PR 01-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 05-DEC-2000; 2000US-0256719.
PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251868.
PR 08-DEC-2000; 2000US-0251869.

PR 08-DEC-2000; 2000US-0251989.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Barash SC, Ruben SM;
XX
XX WPI; 2001-483426/52.
DR
XX
XX Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT useful for preventing, diagnosing and/or treating cancers and
PT metastasis -
XX
XX
PS Disclosure: SEQ ID NO 41384; 3071pp + Sequence Listing; English.
XX
XX
XX AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
CC amino acid sequences given in AAK82170 to AAK91921. (I) have cytostatic
CC activity, and can be used in gene therapy and vaccine production. (I)
CC proteins and polynucleotides may be used in the prevention, diagnosis and
CC treatment of diseases associated with inappropriate (I) expression. For
CC example, they may be used to treat disorders associated with decreased
CC expression by rectifying mutations or deletions in a patient's genome
CC that affect the activity of (I) by expressing inactive proteins or to
CC supplement the patient's own production of (I). Additionally, (I)
CC polynucleotides may be used to produce the secreted (I), by inserting
CC the nucleic acids into a host cell and culturing the cell to express the
CC protein. (I) proteins and polynucleotides may be used to prevent
CC diagnosis and treat immune/hematopoietic-related diseases, especially
CC cancers and cancer metastases of hematopoietic-derived cells. AAK64703
CC to AAK87694 represent human immune/hematopoietic antigen genomic
CC sequences from the present invention. AAK54942 to AAK54950 and AAK82169
CC represent sequences used in the exemplification of the present invention.
XX
SQ Sequence 99 BP; 20 A; 33 C; 26 G; 20 T; 0 other;

Query Match 1 2%; Score 79.6; DB 22; Length 99;
Best Local Similarity 90.4%; Pred. No. 2.1e-06;
Matches 85; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 4110 TGTGGCCGGGTGCTCTGCACTTGTGACCTGTGGGATCCACCCAGCAGCTCCCA 4169
DB 6 TGTGGCCAGGCGTGTCTGCACTCTGACCGCAGGTGATCCACCACTCAGCTCCCA 65
QY 4170 AAGTGCTGGGATTACAGCGCTGAGCCAGTCGACC 4203
DB 66 AAGTGCTGGGATTACAGCGCTGAGCCAGTCGCC 99

RESULT 5
AAS32628/c
ID AAS32628 standard; DNA; 98 BP.
XX
XX AAS32628;
AC
XX
XX 17-DEC-2001 (first entry)
DT
XX
XX Human genomic DNA for novel endocrine antigen, SEQ ID NO 582.
DE
XX
XX Human; endocrine antigen; ds; cytosolic; antinfertility; antidiabetic;
KW thyroid-active; adrenal-active; androgenic; gastric; gene therapy;
KW antisense-therapy; antibody; endocrine disorder; hormone imbalance;
KW reproductive disorder; endocrine cancer; pancreatic disorder;
KW diabetes mellitus; adrenal gland disorder; hirsutism; thyroid disorder;
KW hyperthyroidism; hypothalamic disorder; vanishing testes syndrome.
XX
XX Homo sapiens.
OS
XX
XX W020015319-A2.
PN
XX
XX 02-AUG-2001.
PD
XX

PF 17-JAN-2001; 2001WO-US01335.
XX
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PR 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205457.
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PR 28-JUN-2000; 2000US-0214886.
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PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
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 PR 11-DEC-2000; 2000US-0254097.
 PR 05-JAN-2001; 2001US-0259678.
 XX
 XX
 PA (HUMA-) HUMAN GENOME SCI INC.
 XX
 PI Rosen CA, Barash SC, Ruben SM;
 XX
 DR WPI; 2001-457726/49.
 XX
 PT Isolated polypeptide for treating, preventing and prognosing disorders

PT related to the endocrine system including endocrine disorders,
 PT reproductive disorders, and gastrointestinal disorders and also for
 PT testing and detection e.g. diagnosis -
 XX
 XX
 XX Disclosure; SEQ ID No 582; 558bp; English.
 XX
 CC The invention relates to cDNAs encoding novel human endocrine
 CC antigens or a fragment having biological activity, a domain, an epitope,
 CC full length protein, variant, allelic variant or a species homologue of
 CC the cDNA/antigen. The DNAs and polypeptides are useful for preventing,
 CC treating or ameliorating a medical condition when administered
 CC (e.g. by gene therapy or antisense-therapy). Identifying mutations in
 CC the genes coding for the antigens is useful for diagnosing a pathological
 CC condition or a susceptibility to a pathological condition. The DNAs,
 CC antigens and antibodies raised against the antigens useful for treating,
 CC preventing and/or prognosing disorders related to the endocrine system,
 CC or hormone imbalance or reproductive disorders, cancers of endocrine
 CC tissues, disorders of the pancreas (e.g. diabetes mellitus), the adrenal
 CC glands (e.g. hirsutism), ovaries, the thyroid (e.g. hyperthyroidism), the
 CC hypothalamus and testes (e.g. vanishing testes syndrome), many examples
 CC of diseases and disorders are given in the specification. The present
 CC sequence is genomic DNA fragment form a gene encoding an endocrine
 CC antigen of the invention.
 CC Note: The sequence data for this patent did not form part
 CC of the printed specification, but was obtained in electronic
 CC format directly from WIPO at
 CC ftp.wipo.int/pub/published_pcl_sequences.
 XX
 XX Sequence 98 BP; 22 A; 28 C; 29 G; 19 T; 0 other;
 SQ
 Query Match 1.2%; Score 78.8; DB 22; Length 98;
 Best Local Similarity 87.8%; Pred. No. 3e-06;
 Matches 86; Conservative 0; Mismatches 12; Indels 0; Gaps 0;
 QY 4090 GTAGAGACAGGGTTTCCGCTTGGCCGGCTGCTCGAAGCTTTACCTCGGGTAT 4149
 Db 98 GTAGAGACAGGGTTTCCAGCATGTGGCCAGCGTGTCTCGAAGCTTACCTCAAGTAT 39
 QY 4150 CCACCCAGCTCAGCTCCCAAGTGTGGATTACAG 4187
 Db 38 CCACCCAGCTTGGCTCCCAAGTGTGGATTACAG 1
 RESULT 6
 ID AAK89189 standard; DNA; 98 BP.
 XX
 AC AAK89189;
 XX
 DT 05-NOV-2001 (first entry)
 XX
 DE Human digestive system antigen genomic sequence SEQ ID NO: 2765.
 XX
 KW Human; digestive system antigen; gene therapy; cancer; appendicitis;
 KW ulcerative colitis; infection; Hirschsprung's disease; chronic colitis;
 KW digestive system disorder; Meckel's diverticulum; ds.
 OS Homo sapiens.
 XX
 XX WO200155314-A2.
 PN
 PD 02-AUG-2001.
 XX
 PF 17-JAN-2001; 2001WO-US01324.
 XX
 PR 31-JAN-2000; 2000US-0179065.
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 PR 05-DEC-2000; 2000US-0251988.
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 PR 11-DEC-2000; 2000US-0254097.
 PR 05-JAN-2001; 2001US-0259678.
 (HUMA-) HUMAN GENOME SCI INC.
 Rosen CA, Barash SC, Ruben SM;
 WPI; 2001-502630/55.
 Polynucleotides encoding digestive system antigens, useful for
 diagnosing, treating, preventing and/or prognosing disorders of the
 digestive system, particularly cancer and cancer metastases -
 Disclosure; SEQ ID NO 2765; 986bp; English.
 The present invention provides the protein and coding sequences of a
 number of human digestive system antigens. These can be used in the
 diagnosis, treatment and prevention of digestive system disorders,
 including cancer, Meckel's diverticulum, bacterial or parasitic
 infections, appendicitis, Hirschsprung's disease, chronic colitis or

CC ulcerative colitis. The present sequence is a genomic DNA fragment
CC encoding a digestive system antigen of the invention.
XX
SQ Sequence 98 BP; 18 A; 30 C; 28 G; 22 T; 0 other;

Query Match 1.2%; Score 78.8; DB 22; Length 98;
Best Local Similarity 87.8%; Pred. No. 3e-06;
Matches 86; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

OY 4090 GTAGAGACAGGTTTTCGCTGGCCGGGCTGCTCGACTCTTGACCTCGGTGAT 4149
||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
DB 1 GTAGAGACGGGGTTTTCACATGTTGGCAGGCTGCTCGACTCTGACCTCAGGTGAT 60

OY 4150 CCACCCACCTCAGCCTCCCAAGTCTGCGATTACAG 4187
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DB 61 CCACCCGCTTGGCCTCCCAAGTCTGCGATTACAG 98

RESULT 7

AK89190
ID AAK89190 standard; DNA; 98 BP.

XX
AC AAK89190;

XX
DT 05-NOV-2001 (first entry)

DE Human digestive system antigen genomic sequence SEQ ID NO: 2766.

XX Human digestive system antigen; gene therapy; cancer; appendicitis;

KM ulcerative colitis; infection; Hirschsprung's disease; chronic colitis;

KW digestive system disorder; Meckel's diverticulum; ds.

XX Homo sapiens.

XX WO200155314-A2.

XX PD 02-AUG-2001.

XX PF 17-JAN-2001; 2001WO-US01324.

XX PR 31-JAN-2000; 2000US-0179065.
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PR 20-OCT-2000; 2000US-0241808.
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PR 20-OCT-2000; 2000US-0241826.
PR 01-NOV-2000; 2000US-0244617.
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 PR 06-DEC-2000; 2000US-0251479.
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 PR 08-DEC-2000; 2000US-0251989.
 PR 11-DEC-2000; 2000US-0251990.
 PR 05-JAN-2001; 2001US-0259678.
 (HUMA-) HUMAN GENOME SCI INC.
 Rosen CA, Barash SC, Ruben SM;
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XX Polynucleotides encoding digestive system antigens, useful for
 PT diagnosing, treating, preventing and/or prognosing disorders of the
 PT digestive system, particularly cancer and cancer metastases -
 XX
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CC The present invention provides the protein and coding sequences of a
 CC number of human digestive system antigens. These can be used in the
 CC diagnosis, treatment and prevention of digestive system disorders,
 CC including cancer, Meckel's diverticulum, bacterial or parasitic
 CC infections, appendicitis, Hirschsprung's disease, chronic colitis or
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 CC encoding a digestive system antigen of the invention.
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 Query Match 1 2%; Score 78.8; DB 22; Length 98;
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 Matches 86; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

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 Db 1 GTAGAGAGCGGGCTTCCATGTTGGCCAGAGCTGCTCGAAGCTTGGACCTGGGATGAT 60
 OY 4150 CCACCCAGCTCAGCCTCCCAAGTGTGGGATTAACAAG 4187
 Db 61 CCACCCGCTTGGCTCCCAAGTGTGGGATTAACAAG 98

RESULT 8
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 ID AAK85116 standard; DNA; 95 BP.
 AC AAK85116;
 XX
 DT 07-NOV-2001 (first entry)

XX Human immune/haematopoietic antigen genomic sequence SEQ ID NO:39928.
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 KW Human: immune; haematopoietic; immune/haematopoietic antigen; cancer;
 KW cystostatic; gene therapy; vaccine; metastasis; ds.
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 OS Homo sapiens.
 FN W0200157182-A2.
 XX
 PD 09-AUG-2001.
 XX
 PE 17-JAN-2001; 2001WO-US01354.
 XX
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 PR 07-JUL-2000; 2000US-0216880.
 PR 11-JUL-2000; 2000US-0217487.
 PR 11-JUL-2000; 2000US-0217496.
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 PR 08-DEC-2000; 2000US-0251869.

PR 08-DEC-2000; 2000US-0251989.
 PR 08-DEC-2000; 2000US-0251990.
 PR 11-DEC-2000; 2000US-0254097.
 PR 05-JAN-2001; 2001US-0259678.
 PR (HUMA-) HUMAN GENOME SCI INC.
 PR Rosen CA, Barash SC, Ruben SM;
 PR WPI; 2001-483426/52.
 PR Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
 PR useful for preventing, diagnosing and/or treating cancers and
 PR metastasis -
 PR PT
 PR XX
 PS Disclosure: SEQ ID NO 39928; 3071bp + Sequence Listing; English.
 CC AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
 CC amino acid sequences given in AAM82170 to AAM91921. (I) have cytosolic
 CC activity, and can be used in gene therapy and vaccine production. (II)
 CC proteins and polynucleotides may be used in the prevention, diagnosis and
 CC treatment of diseases associated with inappropriate (I) expression. For
 CC example, they may be used to treat disorders associated with decreased
 CC expression by rectifying mutations or deletions in a patient's genome
 CC that affect the activity of (I) by expressing inactive proteins or to
 CC supplement the patient's own production of (I). Additionally, (I)
 CC polynucleotides may be used to produce the secreted (I), by inserting
 CC the nucleic acids into a host cell and culturing the cell to express the
 CC protein. (I) proteins and polynucleotides may be used to prevent,
 CC diagnose and treat immune/hematopoietic-related diseases, especially
 CC cancers and cancer metastases of haematopoietic-derived cells. AAK64703
 CC to AAK87694 represent human immune/hematopoietic antigen genomic
 CC sequences from the present invention. AAK54942 to AAK54950 and AAM82169
 CC represent sequences used in the exemplification of the present invention.
 CC XX
 SQ Sequence 95 BP; 19 A; 26 C; 33 G; 17 T; 0 other;
 Query Match 1.2%; Score 77.4; DB 22; Length 95;
 Best Local Similarity 88.4%; Pred. No. 5; 6e-06;
 Matches 84; Conservative 0; Mismatches 11; Indels 0; Gaps 0;
 QY 4113 TGGCCGGGCTGCTCGAAGCTTGTGAGTCCACCCAGCTGAGCTCCCAAG 4172
 DB 95 TGGCCAGCGTGTGCTCGAAGCTTGTGAGTCCACCCAGCTGAGCTCCCAAG 36
 QY 4173 TGGCTGGATTACAGCGTGTGAGTCCACCCAGCTGAGCTCCCAAG 4207
 DB 35 TGGCTGGATTACAGCGTGTGAGTCCACCCAGCTGAGCTCCCAAG 1
 RESULT 9
 ID ABA18411/C
 ID ABA18411 standard; DNA; 98 BP.
 XX ABA18411;
 AC 23-JAN-2002 (first entry)
 XX
 DT Human nervous system related polynucleotide SEQ ID NO 10742.
 XX
 DE Human; noctropic; neuroprotective; cytosolic; dermatological; virucide;
 XX immunosuppressive; anti-inflaming; anti-HIV; antibacterial; vulnerary;
 KW antiparkinsonian; anti-sickling; antianemic; antiarthritic; cancer;
 KW antirheumatic; hepatotropic; cerebroprotective; anti-inflammatory;
 KW antiallergic; antidiabetic; antiliver; anticonvulsant; antifungal;
 KW antiparasitic; cardiant; immune disorder; cardiovascular disorder;
 KW neurological disease; infection; nephrotropic; gene therapy; vaccine; ds.
 OS Homo sapiens.
 XX
 XX WO200159063-A2.
 PN
 XX 16-AUG-2001.

PT	Nucleic acids encoding 3224 human nervous system antigen P system
PT	useful for preventing, diagnosing and/or treating nervous system
PT	cancers and metastases -
PS	Disclosure; SEQ ID NO 10742; 1701bp + Sequence listing; English.
XX	
CC	The invention relates to novel genes (ABA11004-ABA21534) and proteins
CC	(ABA1678-ABA18001) useful for preventing, treating or ameliorating
CC	medical conditions e.g. by protein or gene therapy. The genes are
CC	isolated from a range of human tissues disclosed in the specification.
CC	The nucleic acids, proteins, antibodies and (ant)agonists are useful
CC	in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast
CC	and ovarian cancer and other cancers of the adrenal gland, bone, bone
CC	marrow, breast, gastrointestinal tract, liver, lung, or urogenital;
CC	(b) immune disorders e.g. Addison's disease, allergies, autoimmune
CC	haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's
CC	disease, multiple sclerosis, rheumatoid arthritis and ulcerative
CC	colitis; (c) cardiovascular disorders such as myocardial ischaemia and
CC	(d) wound healing; (e) neurological diseases e.g. cerebral anoxia and
CC	epilepsy; and (f) infectious diseases such as viral, bacterial, fungal
CC	and parasitic infections.
CC	Note: The sequence data for this patent did not form part of the
CC	printed specification, but was obtained in electronic format directly
CC	from WIPO at ftp.wipo.int/pub/published_pct_sequences.
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SQ	Sequence 98 BP; 25 A; 24 C; 28 G; 21 T; 0 other:
	Query Match 1.2%; Score 77.2; DB 22; Length 98;
	Best Local Similarity 86.7%; Pred. No. 6.2e-06;
	Matches 85; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
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Db	98 TAGTAGAGATGGGGTTTACCATTGTGGCAGCGCTGTCTCGAACCTCGACTCAAGTG 39
OY	4148 ATCCACCACCTCAGCCTCCCAAAGTCTGGGATTACA 4185
Db	38 ATCCACCTGCCTCAGCCTCCCAATTCGTGGATTACA 1
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XX	ABA18415 standard; DNA; 98 BP.
AC	ABA18415;
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DT	23-JAN-2002 (first entry)
XX	
DE	Human nervous system related polynucleotide SEQ ID NO 10746.
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KW	Human; nootropic; neuroprotective; cytosolic; dermatological; virocnide;
KW	immunosuppressive; antiinflammatory; anti-HIV; antibacterial; vulnerary;
KW	antiParkinsonian; antispasmodic; antianaemic; antiarthritic; cancer;
KW	antirheumatic; hepatotropic; cerebroprotective; antiinflammatory;
KW	antiallergic; antidiabetic; anticancer; anticonvulsant; antifungal;
KW	antiparasitic; cardiant; immune disorder; cardiovascular disorder;
KW	neurological disease; infection; neuropeptide; gene therapy; vaccine; ds
XX	
OS	Homo sapiens.
PN	WO200155063-A2.
PD	
XX	16-AUG-2001.
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Pf	17-JAN-2001; 2001MO-USO1334.
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PR	17-MAR-2000; 2000US-0190076.
PR	18-APR-2000; 2000US-0198123.

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 PR 08-NOV-2000; 2000US-0246609.
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 PR 01-DEC-2000; 2000US-0251160.
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 PR 11-DEC-2000; 2000US-0254097.
 PR 05-JAN-2001; 2001US-0255678.
 (HUMA-) HUMAN GENOME SCI INC.
 Rosen CA, Barash SC, Ruben SM;
 WPI: 2001-541565/60.
 Nucleic acids encoding 3224 human nervous system antigen polypeptides,
 useful for preventing, diagnosing and/or treating nervous system
 cancers and metastases -
 Disclosure: SEQ ID NO 10746; 1701pp + Sequence Listing; English.
 The invention relates to novel genes (ABA11004-ABA21534) and proteins
 (AB11678-AB118001) useful for preventing, treating or ameliorating
 medical conditions e.g. by protein or gene therapy. The genes are
 isolated from a range of human tissues disclosed in the specification.

CC The nucleic acids, proteins, antibodies and (ant)agonists are useful
 CC in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast
 CC and ovarian cancer and other cancers of the adrenal gland, bone, bone
 CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital;
 CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune
 CC hemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's
 CC disease, multiple sclerosis, rheumatoid arthritis and ulcerative
 CC colitis; (c) cardiovascular disorders such as myocardial ischaemia;
 CC (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and
 CC epilepsy; and (f) infectious diseases such as viral, bacterial, fungal
 CC and parasitic infections.
 CC Note: The sequence data for this patent did not form part of the
 CC printed specification, but was obtained in electronic format directly
 CC from WIPO at http://wipo.int/pub/published_pct_sequences.
 CC
 SQ Sequence 98 BP; 25 A; 24 C; 28 G; 21 T; 0 other;
 Query Match 1.2%; Score 77.2; DB 22; Length 98;
 Best Local Similarity 86.7%; Pred. No. 6.2e-06;
 Matches 85; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
 QY 4088 TGCTAGACAGGGTTTGGCGTGTGCGCGGCTGCTCGAATCTGACCTCGGGTG 4147
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 QY 4148 ATCCACCCACCTCAGCCTCCCAAGTCTGGGATTACA 4185
 Db 38 ATCCACCTGCTCAGCCTCCCAATTGCTGGATTACA 1
 RESULT 11
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 ID ABA07342 standard; DNA: 98 BP.
 AC ABA07342;
 XX 14-JAN-2002 (first entry)
 DT
 XX
 DE Human pancreatic cancer related genomic DNA, SEQ ID NO: 661.
 XX
 KW Human; cytostatic; antidiabetic; antiinflammatory; gastric; osteopathic;
 KW antihormone; antilucer; thyroid-active; gene therapy; antisense therapy;
 KW pancreatic cancer antigen inhibitor; pancreatic cancer; pancreatitis;
 KW diabetes; endocrine disorder; acromegaly; hyperthyroidism;
 KW gastrointestinal disorder; Crohn's disease; duodenal ulcer; ds.
 XX
 OS Homo sapiens.
 XX
 PN WO200155206-A1.
 XX
 PD 02-AUG-2001.
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 PF 17-JAN-2001; 2001WO-US01353.
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PR 08-NOV-2000; 2000US-0246526.
PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
PR 08-NOV-2000; 2000US-0246532.
PR 08-NOV-2000; 2000US-0246609.
PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 08-NOV-2000; 2000US-0246613.
PR 17-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.
PR 17-NOV-2000; 2000US-0249216.
PR 17-NOV-2000; 2000US-0249217.
PR 17-NOV-2000; 2000US-0249218.
PR 17-NOV-2000; 2000US-0249244.
PR 17-NOV-2000; 2000US-0249245.
PR 17-NOV-2000; 2000US-0249264.
PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
PR 17-NOV-2000; 2000US-0249300.
PR 01-DEC-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250391.
PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 05-DEC-2000; 2000US-0256719.
PR 06-DEC-2000; 2000US-0251479.
PR 08-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251868.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259578.

(HUMA-) HUMAN GENOME SCI INC.
Rosen CA, Barash SC, Ruben SM;
WPI; 2001-457717/49.
Isolated pancreatic cancer polypeptide for treating, preventing and/or
prognosing disorders related to the pancreas including pancreatic
cancers and also for testing and detection e.g. diagnosis -
Disclosure: SEQ ID NO 661; 537bp; English.
The invention relates to an isolated polypeptide comprising an amino
acid sequence at least 90% identical to 188 amino acid sequences fully
defined in the specification and encoded by 188 cDNA clones fully
defined in the specification. The invention also relates to a fragment
having biological activity, a domain, an epitope, full length protein,
CC variant, allelic variant or a species homologue of the fully defined
sequence. The polynucleotide and polypeptide are useful for treating,
preventing and/or prognosing disorders related to the pancreas including
pancreatic cancer, pancreatitis, diabetes, endocrine disorders such as
acromegaly or hyperthyroidism, and gastrointestinal disorders such as
Crohn's disease and duodenal ulcers. The present sequence encodes a
pancreatic cancer-related polypeptide of the invention.
Sequence 98 BP; 18 A; 29 C; 30 G; 21 T; 0 other;
Query Match 1.2%; Score 77.2; DB 22; Length 98;
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Best Local Similarity 86.7%; Pred. No. 6.2e-06;
Matches 85; Conservative 0; Mismatches 13; Indels 0; Gaps 0;
QY 4090 GTAGAGACAGGTTTGGCGGGGCGCTTCACACTCTGACCTGGGTGAT 4149
Db 1 GTAGAGAGGGGGTTTCCATGTTGGCAGCGCTGTCAAACTCTGACCTGAT 60
QY 4150 CCACCCACCTCAGCTCCCAAGTGTGATTAACAAG 4187
Db 61 CCGCCGCGCTCGGCTCCCAAGTGTGATTAACAAG 98
RESULT 12
AAS32769
ID AAS32769 standard; DNA: 98 BP.
XX
AC AAS32769;
XX
DT 17-DEC-2001 (first entry)
XX
DE Human genomic DNA for novel endocrine antigen, SEQ ID No 723.
XX
KW Human: endocrine antigen; ds; cytosolic; antifertility; antidiabetic;
KW thyroid active; adrenal active; androgenic; gastric; gene therapy;
KW antisense therapy; antibody; endocrine disorder; hormone imbalance;
KW reproductive disorder; endocrine cancer; pancreatic disorder;
KW diabetes mellitus; adrenal gland disorder; hirsutism; thyroid disorder;
KW hyperthyroidism; hypothalamic disorder; vanishing testes syndrome.
XX
OS Homo sapiens.
XX
PN WO200155319-A2.
XX
PD 02-AUG-2001.
XX
PE 17-JAN-2001; 2001WO-US01335.
XX
PR 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0196123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 11-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 14-JUL-2000; 2000US-0217496.
PR 26-JUL-2000; 2000US-0220963.
PR 26-JUL-2000; 2000US-0220963.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
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PR 22-AUG-2000; 2000US-0226868.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.

PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 05-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230437.
PR 06-SEP-2000; 2000US-0230438.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231413.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0231968.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.
PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234997.
PR 25-SEP-2000; 2000US-0234998.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
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PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 01-NOV-2000; 2000US-0244617.
PR 08-NOV-2000; 2000US-0246474.
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PR 08-NOV-2000; 2000US-0246476.
PR 08-NOV-2000; 2000US-0246477.
PR 08-NOV-2000; 2000US-0246478.
PR 08-NOV-2000; 2000US-0246523.
PR 08-NOV-2000; 2000US-0246524.
PR 08-NOV-2000; 2000US-0246525.
PR 08-NOV-2000; 2000US-0246526.
PR 08-NOV-2000; 2000US-0246527.
PR 08-NOV-2000; 2000US-0246528.
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PR 08-NOV-2000; 2000US-0246610.
PR 08-NOV-2000; 2000US-0246611.
PR 08-NOV-2000; 2000US-0246613.
PR 17-NOV-2000; 2000US-0249207.
PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.

PR 17-NOV-2000; 2000US-0249208.
PR 17-NOV-2000; 2000US-0249209.
PR 17-NOV-2000; 2000US-0249210.
PR 17-NOV-2000; 2000US-0249211.
PR 17-NOV-2000; 2000US-0249212.
PR 17-NOV-2000; 2000US-0249213.
PR 17-NOV-2000; 2000US-0249214.
PR 17-NOV-2000; 2000US-0249215.
PR 17-NOV-2000; 2000US-0249216.
PR 17-NOV-2000; 2000US-0249217.
PR 17-NOV-2000; 2000US-0249218.
PR 17-NOV-2000; 2000US-0249244.
PR 17-NOV-2000; 2000US-0249245.
PR 17-NOV-2000; 2000US-0249264.
PR 17-NOV-2000; 2000US-0249265.
PR 17-NOV-2000; 2000US-0249297.
PR 17-NOV-2000; 2000US-0249299.
PR 17-NOV-2000; 2000US-0249300.
PR 01-DEC-2000; 2000US-0250160.
PR 01-DEC-2000; 2000US-0250391.
PR 05-DEC-2000; 2000US-0251030.
PR 05-DEC-2000; 2000US-0251988.
PR 05-DEC-2000; 2000US-0256719.
PR 06-DEC-2000; 2000US-0251479.
PR 06-DEC-2000; 2000US-0251856.
PR 08-DEC-2000; 2000US-0251868.
PR 08-DEC-2000; 2000US-0251869.
PR 08-DEC-2000; 2000US-0251899.
PR 08-DEC-2000; 2000US-0251990.
PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.

(HUMA-) HUMAN GENOME SCI INC.

Rosen CA, Barash SC, Ruben SM:

WPI: 2001-483426/52.

Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
useful for preventing, diagnosing and/or treating cancers and
metastasis -

Disclosure; SEQ ID NO 26660; 3071pp + Sequence Listing; English.

XX AAK54951 to AAK64702 encode the human immune/hematopoietic antigen (I)
XX amino acid sequences given in AAK82170 to AAK91921. (I) have cytostatic
XX activity, and can be used in gene therapy and vaccine production. (I)
XX proteins and polynucleotides may be used in the prevention, diagnosis and
XX treatment of diseases associated with inappropriate (I) expression. For
XX example, they may be used to treat disorders associated with decreased
XX expression by rectifying mutations or deletions in a patient's genome
XX that affect the activity of (I) by expressing inactive proteins or to
XX supplement the patient's own production of (I). Additionally, (I)
XX polynucleotides may be used to produce the secreted (I), by inserting
XX the nucleic acids into a host cell and culturing the cell to express the
XX protein. (I) proteins and polynucleotides may be used to prevent,
XX diagnose and treat immune/hematopoietic-related diseases, especially
XX cancers and cancer metastases of hematopoietic-derived cells. AAK64703
XX to AAK87694 represent human immune/hematopoietic antigen genomic
XX sequences from the present invention. AAK54942 to AAK54950 and AAK82169
XX represent sequences used in the exemplification of the present invention.

XX SQ Sequence 98 BP; 24 A; 29 C; 26 G; 19 T; 0 other;

Query Match 1.28; Score 77.2; DB 22; Length 98;

Best Local Similarity 86.7%; Pred. No. 6.2e-06;
Matches 85; Conservative 0; Mismatches 13; Indels 0; Gaps 0;

QY 4090 GTAAGAGAGAGGTTTGGCTGTGGCCGGGCTGTGCAACTTGACCTCGGGTGAT 4149

DB 98 GTAGAGAGGGGCTTATCATGTGGCCAGGCTGTGCAACTTGTACCTCAGGTGCT 39

QY 4150 CCACCACCTCAGCTCCCAAGTGTGGATTACAG 4187

DB 38 CCACCACCTTGGCTTCCCAAGTGTGGATTACAGG 1

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